



národní
úložiště
šedé
literatury

Supplement to the Report for the Evaluation of the Institute

Štuller, Július
1996

Dostupný z <http://www.nusl.cz/ntk/nusl-33655>

Dílo je chráněno podle autorského zákona č. 121/2000 Sb.

Tento dokument byl stažen z Národního úložiště šedé literatury (NUŠL).

Datum stažení: 29.09.2024

Další dokumenty můžete najít prostřednictvím vyhledávacího rozhraní [nusl.cz](http://www.nusl.cz) .

INSTITUTE OF COMPUTER SCIENCE

ACADEMY OF SCIENCES OF THE CZECH REPUBLIC

Supplement to the Report for the evaluation of
the institute

Július Štuller

Technical report No. 674

June 21, 1996

Institute of Computer Science, Academy of Sciences of the Czech Republic
Pod vodárenskou věží 2, 182 07 Prague 8, Czech Republic
phone: (+422) 66414244 fax: (+422) 8585789
e-mail: uivt@uivt.cas.cz

Institute of
Computer Science
of the Academy of Sciences
of the Czech Republic

Supplement to the Report for the evaluation of the institute

Prague, June 21, 1996

Revised version

Caution This is an edited printout of the complete database of the publications of the Institute employees since the year 1991 till now. In spite of all our effort, some references, mostly from early years, remain incomplete; we apologize for this. Note that in the main report each working group refers to some few of its most important publication. *Section 11* lists citations of all works of the Institute employees in the publications appearing in 1991 or later.

Contents

1 Papers in international journals

- [1] Albrecht V., Paluš M.: The Spectral Dynamics and Its Application in EEG. — *Biological Cybernetics* 66 (1991), 71-78
- [2] Andrej L.: Simple Biological Neural Networks and Stability Criteria for Equilibrium Memories. — *Neurocomputing* 3 (1991), 221-230
- [3] Andrej L., Hrycej D.: A new Neural Networks Algorithm for Making Short Term Predictions on Chaotic Time Series. (Abstract) — *Neural Network World* 2 (1992), 6, 853
- [4] Andrej L.: Neural Models and Algorithms for Digital Testing. (Ed.: Chakvadhur S.T.) — A Review in *Neural Network World* 1 (1993), 1-103
- [5] Andrej L.: Slovaks Were Right. — *Geographical Journal* 66 (1994), 9, 10
- [6] Andrej L.: Science & Religions are Show Lines. — IN PRINT — *Nature*
- [7] Andrej L., Kufudaki O.: Adaption Lambda-Theta Neural Networks. — IN PRINT — *Neural Networks*
- [8] Bartoš M., Kestřánek Z.: Numerical Solution of the Contact Problem. Application to a Simple Model of the Human Hip Joint. — *Journal of Computational and Applied Mathematics* 63 (1995), 1/3, 439-447
- [9] Benzi M., Meyer C., Tůma M.: A Sparse Approximate Inverse Preconditioner for the Conjugate Gradient Method. — IN PRINT — *SIAM Journal on Scientific Computing*
- [10] Beran H.: Time - Delay Neural Networks. — *Neural Network World* 1 (1991), 5, 295-301
- [11] Beran H.: Challenges of the "Post-Communist" Economics for the High-Tech Data Evaluation. (Abstract) — *Neural Network World* 3 (1993), 6, 936
- [12] Beran H.: Academic Research in Neuro-Informatics and the Solution of Practical Problems (R&D Project Management in Banking and Energetics). — *Neural Network World* 5 (1995), 6, 1037-1044
- [13] Berka P., Sláma M., Beran H.: Knowledge Base Refinement Using Machine Learning. — *Neural Network World* 5 (1995), 4, 393-400
- [14] Bitzan P.: Neural Network Simulator. — *Neural Network World* 1 (1991), 4, 215-220
- [15] Bitzan P., Šmejkalová J., Kučera M.: Neural Network With Switching Units. — *Neural Network World* 4 (1994), 5, 515-526
- [16] Brůha I., Kočková S.: Quality of Decision Rules: Empirical and Statistical Approaches. — *International Journal of Computing and Informatics* 17 (1993), 3, 233-244
- [17] Brůha I., Kočková S.: A Support for Decision Making: Cost-Sensitive Learning System. — *Artificial Intelligence in Medicine* (1994), 6, 67-82
- [18] Clote P., Hájek P., Paris J.: On Some Formalized Conservation Results in Arithmetic. — *Archive for Mathematical Logic* 31 (1991), 201-218
- [19] Doubravová J., Sochorová A.: Testing Interpersonal Hypothesis of Music Using GUHA Method. — IN PRINT — *Language of Design*
- [20] Drkošová J., Rozložník M., Strakoš Z., Greenbaum A.: Numerical Stability of GMRES. — *BIT* 35 (1995), 3, 309-336
- [21] Drózd J.: Network Shell - A Software System Supporting Neural Network Simulation. — *Neurocomputing* 3 (1991), 283-285

- [22] Eben K.: A Generalization of Wishart Density for the Case when the Inverse of the Covariance Matrix is a Band Matrix. — *Mathematica Bohemica* 119 (1994), 4, 337-346
- [23] Exner O., Kramosil I., Vajda I.: Mathematical Evaluation of the Fit of a Theory with Experimental Data. — *Journal of Chemical Information and Computer Science* 33 (1993), 3, 407-411
- [24] Fabián Z.: Metric Function and its Use in Neural Networks. — *Neural Network World* 4 (1994), 2, 133-140
- [25] Fiedler M.: An Extremal Problem for the Spectral Radius of a Graph. — *Discrete Mathematics* 108 (1992), 149-158
- [26] Fiedler M., Markham T.: A classification of Matrices of Class Z. — *Linear Algebra and Its Applications* 173 (1992), 115-124
- [27] Fiedler M.: Structure Ranks of Matrices. — *Linear Algebra and its Applications* 179 (1993), 119-128
- [28] Fiedler M., Markham T.: A Characterization of the Moore-Penrose Inverse. — *Linear Algebra and its Applications* 179 (1993), 129-134
- [29] Fiedler M.: Some Minimax Problems for Graphs. — *Discrete Mathematics* 121 (1993), 1-3, 65-74
- [30] Fiedler M., Vavřín Z.: Polynomials Compatible with a Symmetric Loewner Matrix. — *Linear Algebra and its Applications* 190 (1993), 235-251
- [31] Fiedler M., Markham T.: Quasidirect addition of Matrices and Generalized Inverses. — *Linear Algebra and its Applications* 191 (1993), 165-182
- [32] Fiedler M.: Elliptic Matrices with Zero Diagonal. — *Linear Algebra and its Applications* 197/198 (1994), 337-347
- [33] Fiedler M., Markham T.: On a Theorem of Everitt, Thompson, and De Pillis. — *Mathematica Slovaca* 44 (1994), 441-444
- [34] Fiedler M.: Numerical Range of Matrices and Levinger's Theorem. — *Linear Algebra and its Applications* 220 (1995), 171-180
- [35] Fiedler M.: On a Special Class of Generalized Doubly Stochastic Matrices and its Relation to Bézier Polygons. — *SIAM Journal on Matrix Analysis and Applications* 16 (1995), 3, 735-742
- [36] Fiedler M.: Moore-Penrose Involutions in the Classes of Laplacians and Simplices. — *Linear and Multilinear Algebra* 39 (1995), 171-178
- [37] Fiedler M., Markham T.: An Observation on the Hadamard Product of Hermitian Matrices. — *Linear Algebra and its Applications* 215 (1995), 179-182
- [38] Fiedler M.: An Estimate for the Nonstochastic Eigenvalues of Doubly Stochastic Matrices. — *Linear Algebra and its Applications* 214 (1995), 133-143
- [39] Fiedler M.: A Note on the Row-Rhomboidal Form of a Matrix. — *Linear Algebra and its Applications* 232 (1996), 149-154
- [40] Fiedler M., Markham T.: Some Results on the Bergström and Minkowski Inequalities. — *Linear Algebra and its Applications* 232 (1996), 199-211
- [41] Fiedler M.: An Estimate for the Non-Stochastic Eigenvalues of Doubly Stochastic Matrices. — IN PRINT — *Linear Algebra and its Applications*
- [42] Fiedler M., Markham T.: Some Inequalities for the Hadamard Product of Matrices. — IN PRINT — *Linear Algebra and its Applications*
- [43] Fiedler M., Pták V.: A New Positive Definite Geometric Mean of Two Positive Definite Matrices. — IN PRINT — *Linear Algebra and Its Applications*

- [44] Fiedler M.: Some Inverse Problems for Acyclic Matrices. — IN PRINT — Linear Algebra and its Applications
- [45] Fiedler M., Pták V.: Strong Majorization for Hermitian Matrices. — IN PRINT — Linear Algebra and Its Applications
- [46] Fiedler M., Markham T.: Consecutive-Column and -Row Properties of Matrices and the Loewner-Whitney Factorization. — IN PRINT — Linear Algebra and its Applications
- [47] Fiedler M., Pták V.: Block Analogies of Comparison Matrices. — IN PRINT — Linear Algebra and its Applications
- [48] Frolov A., Húsek D.: Informational and Dynamic Properties of Sparsely Encoded Hopfield-Like Associative Memory. — International Journal for Neural Systems 6 (1995), Supplement, 139-146
- [49] Frolov A., Řízek S.: Model of Neurocontrol of Redundant Systems. — Journal of Computational and Applied Mathematics 63 (1995), 1/3, 465-473
- [50] Golub G., Strakoš Z.: Estimates in Quadratic Formulas. — Numerical Algorithms 8 (1994), 241-268
- [51] Greenbaum A., Strakoš Z.: Predicting the Behavior of Finite Precision Lanczos and Conjugate Gradient Computations. — SIAM Journal on Matrix Analysis and Applications 13 (1992), 1, 121-137
- [52] Hakl F.: Recall Strategy of B-S-B Neural Network. — Neural Network World 2 (1992), 1, 59-82
- [53] Hakl F.: Basic Theory of Neural Networks Derived from the B-S-B Model. — Neural Network World 3 (1993), 3, 319-351
- [54] Harmanec D., Hájek P.: A Qualitative Belief Logic. — International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems 2 (1994), 2, 227-236
- [55] Harmanec D., Klir G.: Measuring Total Uncertainty in Dempster-Shafer Theory: A Novel Approach. — International Journal of General Systems 22 (1994), 405-419
- [56] Harmanec D., Klir G., Resconi G.: On Modal Logic Interpretation of Dempster-Shafer Theory of Evidence. — International Journal of Intelligent Systems 9 (1994), 10, 941-951
- [57] Harmanec D., Klir G., Wang Z.: Modal Logic Interpretation of Dempster-Shafer Theory: Infinite Case. — IN PRINT — International Journal of Approximate Reasoning
- [58] Hájek P., Harmanec D.: An Exercise in Dempster-Shafer Theory. — International Journal of General Systems 20 (1992), 137-142
- [59] Hájek P., Montagna F.: The Logic of Π_1 Conservativity Continued. — Archive for Mathematical Logic 32 (1992), 57-63
- [60] Hájek P.: Musikalische Rhetorik der Choralvorspiele Bachs. — European Journal for Semiotic Studies (1992), 4, 659-676
- [61] Hájek P.: Epistemic Entrenchment and Arithmetical Hierarchy. — Artificial Intelligence 62 (1993), 79-87
- [62] Hájek P.: On Logics of Approximate Reasoning. — Neural Network World 3 (1993), 6, 733-744
- [63] Hájek P., Valdés J.: An Analysis of MYCIN-like Expert Systems. — Mathware 1 (1994), 45-68
- [64] Hájek P.: Systems of Conditional Belief in Dempster-Shafer Theory and Expert Systems. — International Journal of General Systems 22 (1994), 113-124
- [65] Hájek P., Sochorová A., Zvárová J.: GUHA for Personal Computers. — Computational Statistics & Data Analysis 19 (1995), 149-153

- [66] Hájek P., Harmancová D., Verbrugge R.: A Qualitative Fuzzy Possibilistic Logic. — *International Journal of Approximate Reasoning* 12 (1995), 1, 1-19
- [67] Hájek P.: Fuzzy Logic and Arithmetical Hierarchy. — *Fuzzy Sets and Systems* 73 (1995), 3, 359-363
- [68] Hájek P.: Getting Belief Functions from Kripke Models. — IN PRINT — *International Journal of General Systems*
- [69] Hlaváčková K.: On Some Variants of Adaptive Rules of Feature Maps. — *Neural Network World* 1 (1991), 5, 287-294
- [70] Hlaváčková K., Neruda R.: The Generalized Kohonen's Rule. — *Neural Network World* 2 (1992), 6, 649-660
- [71] Hlaváčková K., Neruda R.: Radial Basis Function Networks. — *Neural Network World* 3 (1993), 1, 93-101
- [72] Holeňa M.: Lattice of Neural Network Architectures. (Abstract) — *Neural Network World* 2 (1992), 6, 858
- [73] Holeňa M.: Ordering of Neural Network Architectures. — *Neural Network World* 3 (1993), 2, 131-159
- [74] Holeňa M.: Lattices of Neural Network Architectures. — *Neural Network World* 4 (1994), 4, 435-464
- [75] Hořejš J.: A View on Neural Network Paradigms Development - Tutorial. — *Neural Network World* 1 (1991), 1, 61-64
- [76] Hořejš J.: A View on Neural Network Paradigms Development - Part 2 - Tutorial. — *Neural Network World* 1 (1991), 2, 121-128
- [77] Hořejš J.: A View on Neural Network Paradigms Development - Part 3 - Tutorial. — *Neural Network World* 1 (1991), 3, 185-192
- [78] Hořejš J.: A View on Neural Network Paradigms Development - Part 4 - Tutorial. — *Neural Network World* 1 (1991), 4, 253-255
- [79] Hořejš J.: A View on Neural Network Paradigms Development - Part 5 - Tutorial. — *Neural Network World* 1 (1991), 5, 313-320
- [80] Hořejš J.: A View on Neural Network Paradigms Development - Part 6 - Tutorial. — *Neural Network World* 1 (1991), 6, 383-384
- [81] Hořejš J.: A View on Neural Network Paradigms Development - Part 7 - Tutorial. — *Neural Network World* 2 (1992), 1, 83-102
- [82] Hořejš J.: A View on Neural Network Paradigms Development - Part 8 - Tutorial. — *Neural Network World* 2 (1992), 2, 203-210
- [83] Hořejš J.: A View on Neural Network Paradigms Development - Part 9 - Tutorial. — *Neural Network World* 2 (1992), 5, 525-529
- [84] Hořejš J.: Some Research Topics of a Prague Group. : A survey. — *Neural Network World* 2 (1992), 6, 661-665
- [85] Hořejš J., Kufudaki O.: Neural Networks with Local Distributed Parameters. — *Neurocomputing* (1993), 5, 211-213
- [86] Hrycej D.: A New Algorithm for Hidden and Input Layer Pruning. — *Neural Network World* 4 (1994), 1, 19-35
- [87] Hrycej D.: Misclassification Loss in Neural Network Classifiers. — *Neural Network World* 4 (1994), 1, 37-52

- [88] Húsek D., Pokorný J.: Spreading Activation Methods in Information Retrieval - A Connectionist Approach. — *Neurocomputing* 4 (1992), 1-2, 31-36
- [89] Húsek D., Frolov A.: Evaluation of the Informal Capacity of Hopfield Network by Computer Simulation. — *Neural Network World* 4 (1994), 1, 53-65
- [90] Jiřina M.: Binary Neural Net: A Logical Network Modeling Some Features of Neural Nets. — *Neural Network World* 1 (1991), 3, 163-170
- [91] Jiřina M.: A Neural Net for Time Series Extrapolation. — *Neural Network World* 2 (1992), 2, 157-166
- [92] Jiřina M., Gregor J.: Generalization in Three-Valued Growing Neural Net. (Abstract) — *Neural Network World* 2 (1992), 6, 859
- [93] Jiřina M.: Two-Phase Limited Interconnection Neural Net. — *Neural Network World* 3 (1993), 2, 187-196
- [94] Jiřina M., Gregor J.: Generalization in Three-Valued Growing Neural Net. — *Neural Network World* 3 (1993), 3, 237-248
- [95] Jiřina M.: And What About Control in Neural Net. — *Neural Network World* 4 (1994), 5, 541-552
- [96] Jiřina M., Krayem S.: Convergence of the Learning with Small Learning Set in GMDH Neural Net. — *Neural Network World* 5 (1995), 3, 329-339
- [97] Jiřina M., Řízek S.: Identification of Events in Nuclear Physics by Neural Networks. — *Neural Network World* 5 (1995), 6, 893-904
- [98] Jiřina M.: A Binary AND/OR Growing Net with Internal Control. — IN PRINT — *International Journal of Neural Systems*
- [99] Kainen P., Kůrková V.: Quasiorthogonal Dimension of Euclidean Spaces. — *Applied Mathematics Letters* 6 (1993), 3, 7-10
- [100] Kainen P., Kůrková V., Kreinovich V., Sirisengtaksin O.: Uniqueness of Network Parameterizations and Faster Learning. — *Neural, Parallel & Scientific Computations* 2 (1994), 459-466
- [101] Karlíček V., Topolčan O., Pecan L., Eben K., Valenta J., Suvová B.: Clinical Value of Thymidine Kinase in Predicting Recurrence of Breast Cancer in Postsurgical Follow up Studies. — *Journal of Tumor Marker Oncology* 10 (1995), 2, 80
- [102] Kaušitz J., Kulliffay P., Pecan L., Eben K., Puterová B.: Correlation of Cytosolic Concentration of ER, PS2, Cath-D, TPS, TK and cAMP in Primary Breast Carcinomas. — *Neoplasma* 41 (1994), 6, 331-336
- [103] Klán P., Maršík J.: Control Expert Advisor. — IN PRINT — *Control Engineering Practice*
- [104] Klir G., Harmanec D.: On Modal Logic Interpretation of Possibility Theory. — *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems* 2 (1994), 2, 237-245
- [105] Klir G., Harmanec D.: Fuzzy probability and Fuzzy Statistics? — *Estadística Espanola* 35 (1994), 134, 552-556 (Discussion with M. A. Gil.)
- [106] Kočková S., Brůha I.: A covering Algorithm in ML from the View of the Set Theory. — IN PRINT — *International Journal of Pattern Recognition and Artificial Intelligence*
- [107] Kočková S., Brůha I., Franěk F.: Unknown Attribute Value Processing in Covering Learning Algorithm CN4 — IN PRINT — *IEEE Transactions on Pattern Analysis and Machine Intelligence*
- [108] Kramosil I., Šindelář J.: On Pseudo-Random Sequences and Their Relation to a Class of Stochastic Laws. — *Kybernetika* 28 (1992), 5, 383-391

- [109] Kramosil I.: Comparing Alternative Definitions of Boolean-Valued Fuzzy Sets. — *Kybernetika* 28 (1992), 6, 425-443
- [110] Kramosil I.: An Alternative Approach to Rough Sets. — *Kybernetika* 28 (1992), 1, 1-25
- [111] Kramosil I.: Extensional Processing of Probability Measures. — *International Journal of General Systems* 22 (1994), 2, 159-170
- [112] Kramosil I.: Believeability and Plausibility Functions over Infinite Sets. — *International Journal of General Systems* 23 (1994), 2, 173-198
- [113] Kramosil I.: Approximations of Believeability Functions under Incomplete Identification of Sets of Compatible States. — *Kybernetika* 31 (1995), 5, 425-450
- [114] Kramosil I.: A Note on the Role of Consistence Conditions in Statistical Decision Making and in Dempster-Shafer Theory. — IN PRINT — *International Journal of Approximate Reasoning*
- [115] Kramosil I.: Dempster-Shafer Theory with Indiscernible States and Observations — IN PRINT — *International Journal of General Systems*
- [116] Kramosil I.: Searching Algorithms Implemented on Probabilistic Systolic Arrays — IN PRINT — *International Journal of General Systems*
- [117] Kramosil I.: Possibility Measures with Non-Numerical Values. — IN PRINT — *International Journal of Approximate Reasoning*
- [118] Kratochvíl J., Savický P., Tuza Z.: One More Occurrence of Variables Makes Satisfiability Jump from Trivial to NP-Complete. — *SIAM Journal on Computing* 22 (1993), 1, 203-210
- [119] Kufudaki O., Hořejš J.: PAB: Parameters Adapting Back-Propagation. — *Neural Network World* 1 (1991), 5, 267-274
- [120] Kufudaki O., Hořejš J.: CORN - Coupled Recurrent Multilayered Nets. — *Neural Network World* 2 (1992), 3-4, 353-364
- [121] Kůrková V.: Kolmogorov's Theorem is Relevant. — *Neural Computation* 3 (1991), 4, 617-622
- [122] Kůrková V.: Are Sigmoidals the Best Activation Functions in Multilayer Feedforward Networks? — *Neural Network World* 2 (1992), 1, 27-34
- [123] Kůrková V., Kainen P.: Equivalent Weight Vectors in Perceptron Type Networks. — *Neural Network World* 2 (1992), 6, 685-692
- [124] Kůrková V.: Kolmogorov's Theorem and Multilayer Neural Networks. — *Neural Networks* 5 (1992), 3, 501-506
- [125] Kůrková V., Kainen P.: Equivalent Weight Vectors in Perceptron Type Networks. — *Neural Network World* 2 (1992), 6, 685-692
- [126] Kůrková V., Kainen P.: Functionally Equivalent Feedforward Neural Networks. — *Neural Computation* 6 (1994), 3, 543-558
- [127] Kůrková V.: Approximation of Functions by Perceptron Networks with Bounded Number of Hidden Units. — *Neural Networks* 8 (1995), 5, 745-750
- [128] Kůrková V., Kainen P.: Singularities of Finite Sealing Functions. — *Applied Mathematics Letters* 9 (1996), 2, 33-37
- [129] Lepicovská V., Novák P., Drožen O., Fabián Z.: Positive Pressure on Neck Reduces Baroreflex Response to Aphaea. — *Clinical Autonomic Research* 2 (1992), 21-27
- [130] Lukšan L.: A Note on Comparison of Statistical Software for Nonlinear Regression. — *Computational Statistics Quarterly* 4 (1991), 321-324

- [131] Lukšan L.: Computational Experience with Improved Conjugate Gradient Methods for Unconstrained Minimization. — *Kybernetika* 28 (1992), 5, 249-262
- [132] Lukšan L.: Variationally Derived Scaling and Variable Metric Updates from the Preconvex Part of the Broyden Family. — *Journal of Optimization Theory and Applications* 13 (1992), 2, 299-307
- [133] Lukšan L.: Inexact Trust Region Method for Large Sparse Nonlinear Least Squares. — *Kybernetika* 29 (1993), 4, 305-324
- [134] Lukšan L.: Computational Experience With Known Variable Metric Updates. — *Journal of Optimization Theory and Applications* 83 (1994), 1, 27-47
- [135] Lukšan L.: Inexact Trust Region Method for Large Sparse Systems of Nonlinear Equations. — *Journal of Optimization Theory and Applications* 81 (1994), 3, 569-590
- [136] Lukšan L.: Hybrid Methods for Large-Scale Nonlinear Least Squares. — IN PRINT — *Journal of Optimization Theory and Applications* 89 (1996), 3
- [137] Lukšan L.: Efficient Trust Region Method for Nonlinear Least Squares. — IN PRINT — *Kybernetika*
- [138] Lukšan L.: Combined Trust Region Methods for Nonlinear Least Squares. — IN PRINT — *Kybernetika*
- [139] Maršík J., Klán P., Strejc V.: Easy Design of Deadbeat Control Using Plant Step Response Only. — *Control Engineering Practice* 1 (1993), 2, 381-384
- [140] Maryška J., Rozložník M., Tůma M.: Mixed-Hybrid Finite Element Approximation of the Potential Fluid Flow Problem. — *Journal of Computational and Applied Mathematics* 63 (1995), 1/3, 383-392
- [141] Matoušek M., Wackermann J., Paluš M., Beránková M., Albrecht A., Dvořák I.: Global Dimensional Complexity of the EEG in Healthy Volunteers. — *Neuropsychobiology* 31 (1995), 1, 47-52
- [142] Nedoma J.: Plate Tectonics and the Analysis of Fracture Mechanics in a Collision Zone. Part II. Crack Mechanics. — *Contributions of the Geophysical Institute of the Slovak Academy of Sciences* (1991), 21, 38-58
- [143] Nedoma J.: On the Protection and Operation of Nuclear Power Plants and Great Structures in Central Europe with Respect to the Tectonics of European Alpids : A Conception Study. — *Acta Geodetica, Geophysica et Montana Hungarica* 26 (1991), 1-4, 287-300
- [144] Nedoma J.: Finite-Element Analysis of Contact Problems in Thermoelasticity. The Semi-Coercive Case. — *Journal of Computational and Applied Mathematics* 50 (1994), 1/2/3, 411-423
- [145] Nedoma J., Dvořák J.: On the FEM Solution of a Coupled Contact-Two-Phase Stefan Problem in Thermo-Elasticity. Coercive Case. — *Journal of Computational and Applied Mathematics* 63 (1995), 1/3, 411-420
- [146] Nedoma J.: Nonlinear Analysis of the Generalized Thermo-Magnetodynamic Problem. — *Journal of Computational and Applied Mathematics* 63 (1995), 1/3, 393-402
- [147] Nedoma J.: Equations of Magnetodynamics of Incompressible Thermo-Bingham's Fluid Under the Gravity Effect. — *Journal of Computational and Applied Mathematics* 59 (1995), 109-128
- [148] Nedoma J., Stehlík J.: Mathematical Simulation of Osteotomy, Numerical Analysis and Results. — *Journal of Computational and Applied Mathematics* 63 (1995), 1/3, 421-438
- [149] Nekulová M., Šimičková M., Pecen L., Eben K., Vermousek I., Stratil P., Černocho M., Lang B.: Prediction of Dissemination in Breast Cancer Patients Monitored by Tumor Markers and by Other Serum Parameters. — *Journal of Tumor Marker Oncology* 7 (1992), 3, 96-97

- [150] Nekulová M., Šimíčková M., Pecen L., Eben K., Vermousek I., Stratil P., Černocho M., Lang B.: Early Diagnosis of Breas Cancer Dissemination by Tumor Markers Follow-Up and Method of Prediction. — *Neoplasma* 41 (1994), 2, 113-118
- [151] Nekulová M., Pecen L., Eben K., Sláma M.: Prediction of Disease Recurrence in Oncological Patients. — *Neural Network World* 5 (1995), 6, 945-950
- [152] Novák M., Šebesta V.: Optimization of Neural Network Training by Design Centering. — *Neural Network World* 2 (1992), 2, 191-202
- [153] Paluš M., Dvořák I., David I.: Spatio-Temporal Dynamics of Human EEG. — *Physica (A)* 185 (1992), 433-438
- [154] Paluš M., Dvořák I.: Singular-Value Decomposition in Attractor Reconstruction: Pitfalls and Precautions. — *Physica (D)* 55 (1992), 221-234
- [155] Paluš M., Albrecht V., Dvořák I.: Information Theoretic Test for Nonlinearity in Time Series. — *Physics Letters (A)* 175 (1993), 203-209
- [156] Paluš M., Novotná D.: Testing for nonlinearity in weather records. — *Physics Letters (A)* (1994), 193, 67-74
- [157] Paluš M.: Testing for Nonlinearity Using Redudancies: Quantitative and Qualitative Aspects. — *Physica (D)* (1995), 80, 186-205
- [158] Paluš M., Pecen L., Pivka D.: Estimating Predictability: Redundancy and Surrogate Data Method. — *Neural Network World* 5 (1995), 4, 537-552
- [159] Paluš M.: Coarse-Grained Entropy Rates for Characterization of Complex Time Series. — IN PRINT — *Physica (D)*
- [160] Paluš M.: Nonlinearity in Normal Human EEG: Cycles, Temporal Asymmetry, Nonstationarity and Randomness, Not Chaos. — IN PRINT — *Biological Cybernetics*
- [161] Pavlík P.: Parallel Hopfield Machine. — *Neurocomputing* 4 (1992), 89-92
- [162] Pecen L.: Electrical Signal Processing. — *International Journal of Electronics* 73 (1992), 5, 1085-1086
- [163] Pecen L., Eben K., Sláma M.: Computer - Aided Methods in Oncology. — *Neural Network World* 3 (1993), 6, 946-947
- [164] Pecen L., Ramešová N., Pelikán E., Beran H.: Application of the GUHA Method on Financial Data. — *Neural Network World* 5 (1995), 4, 565-571
- [165] Pecen L., Eben K., Sláma M., Horad D., Nekulová M., Černocho M., Šimíčková M., Vermousek I., Kaušitz J.: Method of Mathematical Analyses of Oncological Data - Optimal Clinical and Mathematical Interpretation of Tumor Markers Measurement in the Different Periods of Cancer Diseases. — *Neural Network World* 5 (1995), 6, 977-982
- [166] Pecen L.: Non-optimality of Incremental Algorithms Using Feedforward Nets with One Hidden Layer — IN PRINT — *Neural, Parallel & Scientific Computations*
- [167] Pelikán E., Groot C., Wuertz D.: Power Consumption in West-Bohemia: Improved Forecasts with Decorrelating Connectionist Networks. — *Neural Network World* 2 (1992), 6, 701-711
- [168] Pelikán E.: Modularity in Neural Network Forecasting. (Abstract) — *Neural Network World* 3 (1993), 6, 948
- [169] Perlík F., Kolínová M., Zvárová J., Patzeltová V.: Phenytoin as a Risk Factor in Gingival Hyperplavia. — *Therapeutic Drug Monitoring* 17 (1995), 5, 445-448

- [170] Pfeffer D., Stančák A., Kuliš P., Hoffmanová K.: System Identification and Dynamics Prediction in Neurophysiology. (Abstract) — *Neural Network World* 3 (1993), 6, 949
- [171] Plášil F., Grof M.: Using both Virtual 8086 and Protected Modes to Implement OBJIX Microkernel on I80386. — *Journal of Microcomputer Application* 17 (1994), 381-396
- [172] Pudlák P., Savický P.: On Shifting Networks. — *Theoretical Computer Science* 116 (1993), 415-419
- [173] Resconi G., Klir G., St. Clair U., Harmanec D.: On the Integration of Uncertainty Theories. — *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems* 1 (1993), 1, 50-67
- [174] Resconi G., Klir G., Harmanec D.: Interpretations of Various Uncertainty Theories Using Models of Modal Logic: A Summary. — IN PRINT — *Fuzzy Sets and Systems*
- [175] Rex G., Rohn J.: A Note on Checking Regularity of Interval Matrices. — *Linear and Multilinear Algebra* 39 (1995), 259-262
- [176] Rohn J.: An Algorithm for Checking Stability of Symmetric Interval Matrices. — *IEEE Transactions on Automatic Control* 41 (1996), 1, 133-136
- [177] Rohn J., Rex G.: Interval P-Matrices. — IN PRINT — *SIAM Journal on Matrix Analysis and Applications*
- [178] Růžička P.: Neural Network Learning with Respect to Sensitivity to Weight Errors. — *Neural Network World* 1 (1991), 2, 81-96
- [179] Růžička P.: Learning Neural Networks with Respect to Tolerances to Weight Errors. — *IEEE Transactions on Circuits and Systems (I-Fundamental Theory and Applications)* 40 (1993), 5, 331-342
- [180] Řízek S., Frolov A.: Differential Control by Neural Networks. — *Neural Network World* 4 (1994), 4, 493-508
- [181] Řízek S., Frolov A.: Neurocontrol by Velocity. — *Neural Network World* 5 (1995), 6, 1005-1011
- [182] Savický P.: On the Bent Boolean Functions That are Symmetric. — *European Journal of Combinatorics* 15 (1994), 407-410
- [183] Savický P.: Improved Boolean Formulas for the Ramsey Graphs. — *Random Structures and Algorithms* 6 (1995), 4, 407-415
- [184] Savický P., Žák S.: A Lower Bound on-branching Programs Reading Some Bits Twice. — IN PRINT — *Theoretical Computer Science (A)*
- [185] Sekerka B., Knaifl O., Beran H., Berka P.: Application of AI Techniques in Credit Risk Assessment. — *Neural Network World* 5 (1995), 6, 1045-1048
- [186] Sláma M., Procházka A., Schmid J.: Application of Nonlinear Time Series Modelling for Meteorological Data Prediction. — *Neural Network World* 5 (1995), 4, 603-610
- [187] Stančák A., Fabián Z., Dostálek C.: Spectral Analysis of Inter-Eyeblink Interval Variability at Rest and During Mental Arithmetic. — *Homeostasis in Health and Disease* 34 (1993), 45-53
- [188] Stančák A., Fabián Z., Dostálek C.: The Effects of Respiratory Pattern on the 0.1 HZ Component of R-R Interval Variability in Mental Arithmetics. — *Studia Psychologica* 35 (1993), 1, 65-72
- [189] Stančák A., Pfeffer D., Hrudová L., Sovka P., Dostálek C.: The Effects of Respiratory Frequency on Noninvasive Parameters of the Baroreceptor-Cardiac Reflex Sensitivity. — *Homeostasis in Health and Disease* (1993), 1-35
- [190] Stančák A., Pfeffer D., Hrudová L., Sovka P., Dostálek C.: Electroencephalographic Correlates of Paced Breathing. — *Neuroreport* (1993), 4, 723-726

- [191] Stančák A., Pfeffer D., Hrudová L., Sovka P., Dostálek C.: The Coupling Between Brain Electrical Activity and Respiration during Spontaneous Breathing is Weak. — IN PRINT — International Journal of Psychophysiology
- [192] Strakoš Z.: On the Real Convergence Rate of the Conjugate Gradient Method. — Linear Algebra and its Applications 154-156 (1991), 535-549
- [193] Šimičková M., Nekulová M., Pecen L., Vermousek I., Stratil P., Černocho M., Rejthar A., Kudličková Z., Lorenz I.: Biochemical Analysis of Cystic Fluid in Patients with Gross Cystic Disease of Breast. — Journal of Tumor Marker Oncology 7 (1992), 3, 97-98
- [194] Šimičková M., Pecen L., Eben K., Nekulová M., Vermousek I., Stratil P., Černocho M., Lang B.: Cyst Fluid Analysis as a Possible Predictor of Breast Cancer Development. — Journal of Tumor Marker Oncology 8 (1993), 3 (Special issue), 101
- [195] Šimičková M., Pecen L., Eben K., Nekulová M., Vermousek I., Stratil P., Rejthar A., Černocho M., Lang B., Sakalová J.: Biochemical Analysis of Breast Cyst Fluid as a Possible Predictor of Breast Carcinoma Development. — Neoplasma 41 (1994), 5, 245-252
- [196] Šíma J.: The Multi-Layered Neural Network as an Adaptive Expert System with the Ability to Work with Incomplete Information and to Provide Justification of Inference. — Neural Network World 2 (1992), 1, 47-58
- [197] Šíma J.: Generalized Back Propagation for Interval Training Patterns. — Neural Network World 2 (1992), 2, 167-174
- [198] Šíma J., Neruda R.: Neural Networks as Expert Systems. — Neural Network World 2 (1992), 6, 775-784
- [199] Šíma J.: Loading Deep Networks is Hard. — Neural Computation 6 (1994), 5, 842-850
- [200] Šíma J.: Generalized Back Propagation for Training Pattern Derivatives. — Neural Network World 4 (1994), 1, 91-98
- [201] Šíma J.: Neural Expert Systems. — Neural Networks 8 (1995), 2, 261-271
- [202] Šíma J.: Back Propagation is not Efficient. — IN PRINT — Neural Networks
- [203] Štuller J.: Ordered Modified Gram-Schmidt Orthogonalization Revised. — Journal of Computational and Applied Mathematics 63 (1995), 1/3, 221-227
- [204] Švanda J.: Modular Set of Analog Neural Blocks. — Neurocomputing 4 (1992), 1-2, 103-107
- [205] Švanda J., Sobotka, M.: Using a Hardware Model of a Neural Network for Topological Feature Extraction. — Neural Network World 3 (1993), 2, 209-218
- [206] Topolčan O., Karlíček V., Pecen L., Eben K., Valenta J., Suvová B.: The Evaluation of the Follow-up of Tumor Markers (CEA, CA 15-3, TK ANS TPA) for the Prediction of Breast Cancer Dissemination. — Journal of Tumor Marker Oncology 10 (1995), 2, 79
- [207] Topolčan O., Kaušitz J., Nekulová M., Pecen L., Eben K., Sláma M.: Clinical Experiences with Tumor Markers Analysis by the Mathematical System CRCTES (Cancer Recurrence, Analysis, Correlation and Testing). — Journal of Tumor Marker Oncology 10 (1995), 2, 78-79
- [208] Topolčan O., Pecen L., Horad D., Eben K.: Automatic Detection of Method Change Based on Testing of Stationary of the Results Distribution - Optimal Transformation of Results and Reference Levels. — Journal of Tumor Marker Oncology 10 (1995), 2, 78
- [209] Tůma M.: A Quadratic Programming Algorithm for Large and Sparse Problems. — Kybernetika 27 (1991), 155-167

- [210] Vavřín Z.: Miroslav Fiedler and Vlastimil Pták: Life and Work. — *Linear Algebra and Its Applications* 223/224 (1995), 3-29 (Special Issue Honoring Miroslav Fiedler and Vlastimil Pták)
- [211] Vermousek I., Šimíčková M., Pecen L., Sláma M., Černocho M.: Serum and tissue markers in disease monitoring and prognosis in gynecological cancer. — *Journal of Tumor Marker Oncology* 8 (1993), Special Issue, 101
- [212] Vítková G., Míček J.: Knowledge Processing by Neural Networks. — *Neural Network World* 1 (1991), 3, 171-183
- [213] Wang Z., Klir G., Harmanec D.: The Preservation of Structural Characteristic of Monotone Set Functions Defined by Fuzzy Integral. — *Journal of Fuzzy Mathematics* 3 (1995), 1, 229-240
- [214] Wiedermann J.: On the Computational Efficiency of Symmetric Neural Networks. — *Theoretical Computer Science* 80 (1991), 337-345
- [215] Wiedermann J.: Fast Sequential and Parallel Simulations of Nondeterministic Computations. — *Computers and Artificial Intelligence* 13 (1994), 6, 521-536
- [216] Wiedermann J.: Complexity Issues in Discrete Neurocomputing. — *Neural Network World* 4 (1994), 1, 99-119
- [217] Zvárová J., Jedličková A., Zvára K.: Computer-Based Evaluation of Antibiotic Therapy Predictions. — *International Journal of Bio-Medical Computing* 29 (1991), 3/4, 207-213
- [218] Zvárová J.: Education in the Methodology for Health Care – EuroMISE. — *Methods of Information in Medicine* 33 (1994), 3, 315-317
- [219] Zvárová J.: Detecting Risk Factor of Diseases. — *Biocybernetics and Biomedical Engineering* 15 (1994), 1/2, 203-212

2 Papers in other journals

- [1] Andrej L.: Mezinárodní konference "Nonlinear Modelling and Forecasting" (Santa Fe). — Československý časopis pro fyziku (A) 41 (1991), 4, 390-392
- [2] Andrej L.: Chruščovovo Detente a vznikající internacionalismus ve fyzice částic (R.E. Marshak). — Československý časopis pro fyziku (A) 41 (1991), 4, 378-388
- [3] Andrej L.: Modely neuronových sítí pro zpracování obrazců a asociativní paměti. — Československý časopis pro fyziku (A) 42 (1992), 507-534
- [4] Černohorská J., Dvořák M., Natr L., Harmancová D.: Expertní systém FYTOTROF podporující diagnostiku deficitu ve výživě rostlin podle vizuálních symptomů. — Úroda (1992), 7, 334
- [5] Doubravová J., Sochorová A.: Ověřování interpersonální hypotézy hudby metodou GUHA. — Československá psychologie 38 (1994), 5, 408-419
- [6] Drózd J.: K některým otázkám návrhu systému řízení bází dat. — Zpravodaj Sdružení uživatelů počítačů 7 (1991), 2, 58-68
- [7] Drózd J.: System X-Window. — BAJT (1991), 2
- [8] Dvořák M., Černohorská J., Natr L., Harmancová D.: Jak pracovat s expertním systémem FYTOTROF. — Úroda (1992), 8, 373-374
- [9] Georgieva C., Vítková G.: Syntéza relační databáze na osobním počítači. — Automatizace 34 (1991), 3, 73-77
- [10] Hamata V.: Hluk elektrických strojů. — Elektrotechnický obzor (1991), 4, 293
- [11] Hamata V.: Kdo vede v HI-TECH. — Zpravodaj Sdružení uživatelů počítačů (1991), 6
- [12] Harmancová D., Natr L., Dvořák M., Černohorská J.: Expertní systémy - obecná charakteristika. — Úroda (1992), 5, 236-237
- [13] Harmancová D., Dvořák M., Černohorská J., Natr L.: Expertní systém FYTOTROF podporující diagnostiku deficitu ve výživě rostlin podle vizuálních symptomů. — Agrochémia 33 (1993), 5, 142-144
- [14] Hájek P.: Práce a nejistotou v systémech umělé inteligence. — Computer Echo 4 (1993), 1, 29-31
- [15] Hájek P., Rauch J.: Inteligentní analýza dat a GUHA. — Computer Echo 4 (1993), 3, 31-33
- [16] Hlaváčková K.: Mezinárodní výstava Online/CD-ROM Information '94 v Londýně. — Computer Echo 6 (1995), 1, 44
- [17] Hořejš J.: Neuronové sítě. — Softwarové noviny (1991), 4
- [18] Hrach K.: Porovnávání rozdělení dob přežití pomocí SW vybavení SAS, S-PLUS a STATISTICA. — IN PRINT — Acta Universitatis Purkyniana Oeconomica
- [19] Húsek D.: Feed Forward Neural Nets and Expert Systems. — Slaboproudý obzor 52 (1991), 5, 113-116
- [20] Húsek D.: Dvousměrná asociativní paměť. — Slaboproudý obzor 52 (1991), 6, 152-155
- [21] Húsek D.: Hypertext. — Computer Echo 2 (1991), 2, 12-16
- [22] Húsek D.: Malý velký počítač POQET PC. — Computer Echo 2 (1991), 2, 51-59
- [23] Húsek D.: Tiskárna FUJITSU DL 1100 - první dojem. — Computer Echo 2 (1991), 3, 52-53

- [24] Húsek D.: Nová rada počítačů COMPAQ. — Computer Echo 2 (1991), 3, 54-55
- [25] Húsek D.: SOFTWARE 602 spol. s r.o. — Computer Echo 2 (1991), 3, 57-59
- [26] Húsek D., Novák M., Rákosník P.: Ohmura záznamník s procesorem Intel 386DX : test. — Computer Echo 2 (1991), 4, 57-59
- [27] Húsek D.: TH System (Profil). — Computer Echo 3 (1993), 2, 45-46
- [28] Húsek D.: Jazyk Natural : AG Software. — Computer Echo 3 (1993), 3, 44-45
- [29] Húsek D.: Manipulační jazyk 4GL NATURAL : SOFTWARE AG. — Computer Echo 3 (1993), 3, 44-45
- [30] Húsek D.: Siemens Nixdorf Osteuropa GmbH (profil firmy). — Computer Echo 3 (1992), 4, 32
- [31] Húsek D.: Novell NetWare 4.0. — Computer Echo 3 (1993), 4, 39-41
- [32] Húsek D.: INVEX 93 s novými produkty SOFTWARE AG : PRODIS, CON-NECT, NATURAL for Windows. — Computer Echo 3 (1993), 4, 45-46
- [33] Húsek D., Rossol I.: Novell NetWare 4.01 : Systémová databáze. — Computer Echo 3 (1993), 5, 25-31
- [34] Húsek D., Rossol I.: Novell Netware 4.01 (Requester). — Computer Echo 3 (1993), 6, 34-39
- [35] Húsek D.: TEXTANT 1.11 - Spolehlivý průvodce mořem textu. — Computer Echo 5 (1994), 1, 39-40
- [36] Húsek D., Pokorný J.: Databázová technologie 1. Záměry a skutečnost. — Computer Echo 5 (1994), 3, 9-14
- [37] Húsek D., Pokorný J.: Databázová technologie 2. Záměry a skutečnost. — Computer Echo 5 (1994), 4, 9-14
- [38] Húsek D., Pokorný J.: Databázová technologie 3. Záměry a skutečnost. — Computer Echo 5 (1994), 5, 16-20
- [39] Húsek D., Pokorný J.: Databázové technologie 4. Záměry a skutečnost. — Computer Echo 5 (1994), 6, 11-16
- [40] Jiřina M.: Elektricky programovatelná logická síť EPLN. — Zpravodaj Sdružení uživatelů počítačů 7 (1991), 2, 69-71
- [41] Kaušitz J., Kuliffay B., Pecen L.: Korelácia hladín Cath-d a PS2 s dalšími cytozolovými markerami u karcinómov mliečnej žlazy. — Aktuality klinické onkologie 5 (1994), 31-32
- [42] Kroftová J.: Aplikální programové vybavení - sázka do loterie? Informace z oddělení aplikačního programového vybavení ÚIVT ČSAV. — Novosti vědy, techniky a ekologie (1991), 11, 12-14
- [43] Macháčková J., Zvárová J.: Rutinní epikutánní testy za období deseti let (1982-1991). — Československá dermatologie 68 (1993), 3, 123-126
- [44] Nátr L., Dvořák M., Černošská J., Harmancová D.: Expertní systémy v rostlinné výrobě. — Úroda (1992), 6, 275
- [45] Nekulová M., Šimíčková M., Pecen L., Sláma M., Lang B., Černoš M.: Význam nádorových markerů pro predikci relapsu karcinomu prsu. — Klinická biochemie a metabolismus 23 (1994), 2, 76-79
- [46] Novák M.: Neuronové sítě v technologii CMOS. — Slaboproudý obzor 52 (1991), 1, R10-R11
- [47] Novák M.: Modelování neuronu a jejich sítí - Umělé neuronové sítě. — Slaboproudý obzor 52 (1991), 7-8, 33-38

- [48] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 1. Úvod. — Slaboproudý obzor 52 (1991), 2, P1-P4
- [49] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 2. Poznatky a představy o struktuře a funkcích mozku. — Slaboproudý obzor 52 (1991), 3-4, P5-P9
- [50] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 3. Synapse a neuronové sítě. — Slaboproudý obzor 52 (1991), 3-4, P9-P14
- [51] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 4. Vnitřní informační systém buněk. — Slaboproudý obzor 52 (1991), 5, P17-P24
- [52] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 5. Sítě neuronu v mozku a jejich funkce. — Slaboproudý obzor 52 (1991), 6, P25-P32
- [53] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 6. Modelování neuronů a jejich sítí. — Slaboproudý obzor 52 (1991), 7-8, P33-P38
- [54] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 7. Učení. — Slaboproudý obzor 52 (1991), 9-10, P39-P45
- [55] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 8. Paradigmata neuronových sítí. — Slaboproudý obzor 52 (1991), 11-12, P47-P54
- [56] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 9. Realizace složitějších umělých neuronových sítí. — Slaboproudý obzor 53 (1992), 3-4, P55-P62
- [57] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 10. Neuropočítače. — Slaboproudý Obzor 53 (1992), 7-8, P63-P68
- [58] Novák M.: Systémy napodobující myšlení (umělé neuronové sítě) - 11. Použití umělých neuronových sítí a neuropočítačů. — Slaboproudý obzor 53 (1992), 9-10, P71-P78
- [59] Novák M.: Neuropočítače dnes a zítra. — Elektronika (1991), 7, 4-7
- [60] Novák M.: Elektronické neuropočítače a neuronové sítě. — Elektronika 5 (1991), 11, 4-7
- [61] Novák M.: Umělé neuronové sítě odkud jdou a kam? — PC World (1991) 2, 48-57
- [62] Novák M.: Využití neuropočítačů v integrovaných informačních systémech. — Zpravodaj sdružení uživatelů počítačů 7 (1991), 2, 86-91
- [63] Novák M.: Umělé neuronové sítě a neuropočítače na počítačovém veletrhu CeBIT v Hannoveru (13.-20.3.1990). — Zpravodaj sdružení uživatelů počítačů 7 (1991), 3, 17-22
- [64] Novák M.: Perspektivy strojového překladu v Japonsku. — Zpravodaj sdružení uživatelů počítačů 7 (1991), 4, 13-15
- [65] Novák M.: Možnosti a perspektivy neuropočítačů. — Výběr informací z organizační a výpočetní techniky (1991), 4, 437-453
- [66] Novák M.: Nealgoritmické zpracování informací - I. část. — Computer World 3 (1992), 28
- [67] Novák M.: Nealgoritmické zpracování informací - II. část. — Computer World 3 (1992), 29
- [68] Novák M.: Aplikace umělých neuronových sítí pro predikci signálu. — Elektronika (1992), 10, 4-6
- [69] Pavlík P.: Simulace elektronických obvodu s použitím relaxacních metod. — Slaboproudý obzor 52 (1991), 2, 29-36
- [70] Pecan L.: Počítačové vyhodnocování měření sériových markerů a jejich přínos k optimalizaci hodnocení pacienta. — Aktuality klinické onkologie 5 (1994), 37

- [71] Pecen L., Zvárová J.: Některé chyby při matematickém zpracování lékařských studií. — IN PRINT — *Klinická Biochemie a Metabolismus*
- [72] Pokorný J., Húsek D.: Databázová technologie 5. Co jsou to databázové jazyky. — *Computer Echo* (1995), 1, 7-13
- [73] Pokorný J., Húsek D.: Databázové technologie 6. Relační systémy řízeníází dat ovládly oblast hromadného zpracování dat. — *Computer Echo* (1995), 2, 19-24
- [74] Pokorný J., Húsek D.: Databázové technologie 7. Techniky transakčního zpracování. — *Computer Echo* (1995), 3, 9-16
- [75] Pokorný J., Húsek D.: Databázové technologie 8. Objektově orientované databáze. — *Computer Echo* (1995), 4, 16-23
- [76] Poláček I.: Porovnání programů pro jednoduché účetnictví. — *Computer World* 4 (1993), 1, 8, 12
- [77] Posseltová V., Böhm V., Killberger J., Novák M., Pelikán E., Beran H., Pfeffer D.: Predikce příkonu v energetické síti pomocí umělých neuronových sítí. — *Energetika* (1995), 11, 342-344
- [78] Preiss J., Dvořáková M., Zvárová J., Hynek K.: Neuropsychologické testy u dvojčat a vliv schizofrenie. — *Československá psychologie* 36 (1992), 3, 257-266
- [79] Preiss J., Kolínová M., Zvárová J.: Epilepsie a paměť. Korelace Wechslerovy paměťové škály s 13 klinickými proměnnými. — *Československá psychologie* 37 (1993), 2, 146-160
- [80] Preiss J., Hynek K., Dvořáková M., Zvárová J.: Neuropsychologické testy a plynulé sledovací oční pohyby u schizofrenních dvojčat. — *Československá psychiatrie* 89 (1993), 5, 21-28
- [81] Preiss J., Zvárová J., Kolínová M.: Epilepsie a inteligence. Korelace ke třinácti proměnným. — *Československá psychologie* 37 (1993), 4, 209-220
- [82] Preiss J., Zvárová J., Kolínová M.: Srovnání Wais-R a Wechsler-Bellevue. — *Československá psychologie* 39 (1995), 5, 433-439
- [83] Příbylová H., Vondráček J., Eben K.: Vývoj a vzájemné vztahy některých respiračních a biochemických parametrů fyziologických novorozenců. — *Česká pediatrie* 48 (1993), 10, 595-599
- [84] Sláma M., Vítková G.: Paradox 4.0 a Paradox 4.5 for Windows. — *Computer Echo* 3 (1993), 6, 40-44
- [85] Šebesta V.: Jak nakupovat programy pro osobní počítače? — *Technický týdeník* 39 (1991), [11. 6.1991] 24
- [86] Šebesta V.: Software jako na jarmarku. — *Hospodářské noviny* (1991), [22. 7.1991] 139
- [87] Šebesta V.: Tolerance občas nežádoucí. — *Hospodářské noviny* (1991), [24. 7.1991] 141
- [88] Šebesta V.: Transputery a jejich programování. — *Slaboproudý obzor* 51 (1991), 11, 83-86
- [89] Šebesta V.: Transputery - stavební kameny paralelních výpočetních systémů. — *Computer Echo* 3 (1992), 2, 16-21
- [90] Šebesta V., Poláček I.: Programy pro správu disku na PC. — *Hospodářské noviny* (1992), [4. 6. 1992]
- [91] Šebesta V., Pavelka J.: Nizozemský vzdělávací program AMBI, další krok k počítačové gramotnosti. — *Hospodářské noviny* (1996), [15. 1.1996] 12
- [92] Šimíčková M., Pecen L., Eben K., Rejthar A., Vermousek I., Nekulová M., Stratil P., Černocho M., Lang B., Vojtová I., Sakalová J.: Analýza opakovaných odběrů cystické tekutiny u fibrocystické choroby prsu. — *Klinická onkologie* (1995), 3, 72-78
- [93] Štědrý A., Neruda R.: Volně šířitelné programy pro UNIX a MS-DOS a dokumentace. — *Computer Echo* 5 (1994), 2, 36

- [94] Štuller J., Provazníková H., Štullerová N.: Zdraví a možnosti preventivní péče o studenty prvního ročníku 3.lékařské fakulty UK Praha. — Československá psychologie 39 (1995), 2, 159-169
- [95] Švanda J.: Elektronické neuronové sítě. — Zpravodaj sdružení uživatelů počítačů 8 (1992), 1, 47-55
- [96] Tůma M.: Porovnání rychlosti a přesnosti řešení nesymetrických lineárních systémů implicitní Gaussovou eliminací na výkonné výpočetní technice dostupné v AV ČR: Cray Y-MP EL a SGI Crimson s procesorem R4000. — Silicon Graphics World 1 (1993), 3, 8,11,39-40
- [97] Tůma M., Rozložník M.: Porovnávání rychlosti a přesnosti řešení některých úloh lineární algebry na počítačích Silicon Graphics Crimson a Cray YMP EL. — IN PRINT — Československý časopis pro fyziku
- [98] Vermousek I., Šimíčková M., Pecen L., Sláma M., Eben K., Černocho M., Čecháček Z.: Význam sérových a tkáňových markerů u gynekologických nádorů. — Klinická biochemie a metabolismus 24 (1995), 1, 14-17
- [99] Zvárová J.: Lékařská informatika - současný stav a vývojové tendence. — Lékař a technika 23 (1992), 1, 1-6
- [100] Zvárová J.: Světový kongres o lékařské informatice MEDINFO '92.. — Informační bulletin České statistické společnosti (1992), 67-69
- [101] Zvárová J., Sochorová A.: Metoda GUHA I. Automatizované vyhledávání hypotéz. — Lékař a technika 28 (1993), 5, 108-110
- [102] Zvárová J.: Yearbook of Medical Informatics'92. — Lékař a technika 24 (1993), 5, 110-111
- [103] Zvárová J., Preiss J., Sochorová A.: Metoda GUHA II. Vyhledávání hypotéz o asociaci paměťové výkonnosti a vybraných klinických veličin u epileptických nemocných. — Lékař a technika 23 (1993), 6, 142-145
- [104] Zvárová J.: Medicínská informatika. — Medical Marketing (1995), 2, 7
- [105] Zvárová J.: Medicínská informatika a telematika. — Computer Echo 6 (1995), 2, 16-18
- [106] Zvárová J.: EuroMISE. Evropský projekt spolupráce v rámci programu TEMPUS-PHARE. — Forum 2 (1995), 3, 10
- [107] Zvárová J.: Konference Health Care Computing (Harrogate, Anglie, 20.-22.3.1995). — Lékař a technika 26 (1995), 3, (unnumbered supplement)
- [108] Zvárová J.: 8. světový kongres o medicínské informatice MEDINFO'95. — Lékař a technika, 26 (1995), 136
- [109] Zvárová J.: Mezinárodní konference EuroMISE 95: Informace, zdraví a vzdělání. — Medical Marketing 2 (1995), 3, 1,8
- [110] Zvárová J.: EuroMISE - Evropský projekt spolupráce v rámci programu TEMPUS-PHARE. — Forum UK 2 (1995), 2, 10
- [111] Zvárová J.: Vzdělávací programy v oblasti medicínské informatiky. — Zdravotnické noviny - Příloha (1996), [12. 1.1996]

3 Papers in proceedings of international conferences

- [1] Andrej L.: The Shock Therapy - Cheating or Perversity? — In: Economic Transformation: Neoclassic Shocks or a Development of Socioeconomic Systems, VSE, Prague, 1992
- [2] Andrej L.: Entropy Production as New Harmony Fuction. — In: Proceedings of ACNN '92, 1992
- [3] Andrej L., Querinjean P.: Oscillatory Biological Parameters, Predictability and Cancer. — In: Sun, Moon and Living Matter (Editor: M. Mikulovský), Volume 1, Slovak Medical Society, Bratislava, 1994, 58-63
- [4] Andrej L.: Chaodynamics & Predictability. — In: Opération Predicancer. Seance d'Information des Médecins, Bioclub & Medi-Sphere, Brussels, 1994, 4-7
- [5] Bendová K., Hájek P.: Possibilistic Logic as Tense Logic. — In: Qualitative reasoning and decision technologies (Editors: P. Carete, M. Singh), CIMNE Barcelona, Barcelona, 1993, 441-450
- [6] Benzi M., Tůma M.: A Comparison of Some Preconditioning Techniques for General Sparse Matrices. — IN PRINT, The American Mathematical Society
- [7] Bitzan P.: Particle Networks, the Physical Analogy of Neural Nets and a Neural Networks Simulator. — In: Theoretical Aspects of Neurocomputing – Selected Papers from the Symposium on Neural Networks and Neurocomputing (NEURONET '90), (Editors: M. Novák, E. Pelikán), World Scientific, Singapore, 1991, 103-122
- [8] Bitzan P., Šmejkalová J.: Optical Neural Network for Time-Critical Applications. — In: NEURONET '93, ICSA AS CR, Prague, 1993, 4-9
- [9] Böhm V., Posseltová V., Novák M., Pelikán E.: Neural Network Predicting System for Electric Load Data in West Bohemia. — In: ISAP '94, Volume 2, EC2, Paris, 1994, 857-863
- [10] Brůha I., Kočková S.: A Covering Learning Algorithm for Cost-Sensitive and Noisy Environments. — In: European Conference on Machine Learning, Workshop Learning Robots (Editor: A. Giordana), Department of Medical Cybernetics, University of Vienna, Vienna, 1993
- [11] Daniel M.: Expert Systems for Logical Database Design Support. — In: Znanije - Dialog - Rešenije (Knowledge - Dialogue - Solution), LDNTP, Leningrad, 1991, 51-58
- [12] Daniel M.: More on Automorphism of Dempster's Semigroup. — In: Proceedings of the 3rd Workshop on Uncertainty Processing in Expert System, University of Economics, Prague, 1994, 54-69
- [13] Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory. — In: IPMU – Information Processing and Management of Uncertainty in Knowledge-Based Systems, Volume 1, Cité Internationale Universitaire, Paris, 1994, 71-76
- [14] Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory. — In: Advances in Intelligent Computing - IPMU '94 (Editors: B. Bouchon-Meunier, R. R. Yager, L. A. Zadeh), Springer-Verlag, Berlin, 1995, 51-61
- [15] Drescher S., Holeňa M., Kruschinski R., Laufkoetter G.: Integrating Frames, Rules and Uncertainty in a Database-Coupled Knowledge-Representation System. — In: Proceedings of the 5th International Conference – Database and Expert Systems Applications (Editor: D. Karagiannis), Springer-Verlag, Berlin, 1994, 703-712
- [16] Drescher P., Holeňa M., Kruschinski R., Laufkötter G.: Support of Building Different Intelligent Applications with JCF Intelligent Framework Services (IFS). — In: Proceedings of the International Workshop on Concurrent / Simultaneous Engineering Frameworks and Applications (Editor: L. Faria), Instituto Superior Tecnico, Lisabon, 1995, 41-47

- [17] Duží M.: Frege, National Attitudes and the Problem of Polymorphism. — In: *Logic und Mathematic*, de Gruyter, Berlin, 1993, 200-209
- [18] Duží M., Materna P.: Non-reasonable Sentences. — In: *LOGICA '94 – Proceedings of the 8th International Symposium* (Editors: T. Childers, O. Majer), *FILOSOFIA*, Prague, 1994, 107-124
- [19] Duží M., Materna P.: Belief Sentences. — In: *LOGICA '95 — IN PRINT*
- [20] Eben K., Pecan L., Sláma M., Nekulová M., Lang B.: Modelling Biochemical Latency for Prediction of Cancer Dissemination. — In: *The 1st World Congress on Computational Medicine, Public Health and Biotechnology*, Texas University, Austin, 1994, 4
- [21] Eben K., Jäger W., Vondráček J., Pecan L.: Gibt es einen mathematischen Hinweis, dass die Behandlung des metastasierten Mammakarzinoms zur Verlängerung des Lebens führen kann? oder - Lassen sich die Wachstumsmodelle von Skipper und Schabel beim menschlichen Mammakarzinom nachvollziehen? — In: *Gemeinsame Tagung der Bay. Gesellschaft für Geburtshilfe und Frauenheilkunde e.V. und der Österreichischen Gesellschaft für Gynäkologie und Geburtshilfe*, Erlangen, 1995, 75-78
- [22] Fabián Z.: A Differential - Geometrical Approach to Estimation of Vector of Connection Strengths of Multilayered Neural Network. — In: *Theoretical Aspects of Neurocomputing – Selected Papers from the Symposium on Neural Networks and Neurocomputing (NEURONET '90)*, (Editors: M. Novák, E. Pelikán), World Scientific, Singapore, 1991, 152-179
- [23] Fabián Z.: An Alternative Approach to Parametric Estimation. — In: *EMS 1992. Programme & Abstracts*, University of Bath, Bath, 1992, 151
- [24] Fabián Z.: Metric Random Variable and its Possible Use. — In: *Transactions of the 12th Prague Conference – Information Theory. Statistical Decision Functions. Random Processes*, Institute of Information Theory and Automatization (IITA), AS CR, Prague, 1994, 67-72
- [25] Frolov A., Húsek D.: Once More about Information Capacity of Hopfield Neural Network. — In: *ESANN '93*. (Editor: M. Verleysen), D Facto, Brussels, 1993, 195-202
- [26] Frolov A., Řízek S.: Differential Neurocontroller. — In: *Preprints of the European IEEE Workshop CMP' 94 – Computer-Intensive Methods in Control and Signal Processing* (Editors: L. Kárný, L. Kulhavá, K. Warwick), ITIA AS CR, Prague, 1994, 179-184
- [27] Frolov A., Roschin V., Řízek S.: Learning Convergence in Differential Neurocontrol. — In: *The Second International Symposium on Neuroinformatics and Neurocomputers*, IEEE, Piscataway, 1995, 32-38
- [28] Greenbaum A., Strakoš Z.: Matrices that Generate the Same Krylov Residual Spaces. — In: *Recent Advances in Iterative Methods*, Springer-Verlag, New York, 1994, 95-118
- [29] Hanuš M., Matoušková M., Zvárová J.: Medical, Ethical and Economical Aspects of Screening for Prostate Cancer. — In: *EuroMISE 95: Information, Health and Education* (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 26
- [30] Harmanec D., Klir G., Resconi G.: Completing Interpretation of Dempster-Shafer Theory within Semantics of Modal Logic. — In: *Proceedings of Second European Congress on System Science*, IITA AS CR, Prague, 1993, 1031-1038
- [31] Harmanec D.: Toward a Characterization of Uncertainty Measure for the Dempster-Shafer Theory. — In: *Proceedings of the Eleventh Conference on Uncertainty in Artificial Intelligence* (Editors: P. Besnard, S. Hanks), Morgan Kaufmann Publishers, San Mateo, 1995, 255-261
- [32] Harmanec D., Klir G.: Principle of Uncertainty Invariance Revisited. — In: *Proceedings of the 4th International Fuzzy Systems and Intelligent Control Conference*. — IN PRINT
- [33] Havránek T.: Parallelization and Symbolic Computation Techniques in Model Search. — In: *SoffStat '91*, Gustav Fisher - Verlag, 1991, 1-9

- [34] Havránek T.: Simple Formal Systems in Data Analysis. — In: INRIA, Nova Science Publishers, New York, 1991
- [35] Havránek T.: Model Search Software GUHA. — In: INRIA - Software Descriptions, New York, 1991
- [36] Hájek P., Harmanec D.: On Belief Functions (the present state of Dempster-Shafer theory). — In: Advanced in Artificial Intelligence (Editor: Mařík), Springer Verlag, Berlin, 1992, 286-307
- [37] Hájek P.: Dempster-Shafer Theory - What it is and how (not) to use it. — In: SOFSEM '92, Volume 2, Institute of Computer Science (ICS), Masaryk's University (MU), Brno, 1992, 19-24
- [38] Hájek P.: Interpretability and Fragments of Arithmetic. — In: Arithmetic, Proof Theory and Computational Complexity (Editors: P. Clote, J. Krajíček), Clarendon Press, Oxford, 1993, 185-196
- [39] Hájek P., Montagna F., Pudlák P.: Abbreviating Proofs Using Mathematical Rules. — In: Arithmetic, Proof Theory and Computational Complexity (Editors: P. Clote, J. Krajíček), Clarendon Press, Oxford, 1993, 197-221
- [40] Hájek P., Harmancová D.: A Comparative Fuzzy Modal Logic (Fuzzy Logic in Artificial Intelligence). — In: FLAI '93, Springer-Verlag, Berlin, 1993, 27-34
- [41] Hájek P.: Deriving Dempster's Rule. — In: Uncertainty in Intelligent Systems (Editors: B. Bouchon-Meunier, L. Valverde, R. R. Yager), North Holland, Amsterdam, 1993, 75-83
- [42] Hájek P.: Possibilistic Logic as Interpretability Logic. — In: IPMU – Information Processing and Management of Uncertainty in Knowledge-Based Systems, Volume 2, Cité Internationale Universitaire, Paris, 1994, 815-819
- [43] Hájek P.: On Logics of Approximate Reasoning. — In: Knowledge Representation and Reasoning Under Uncertainty. Logic at Work. (Editors: M. Masuch, L. Pólos), Volume 1, Springer-Verlag, Heidelberg, 1994, 17-29
- [44] Hájek P., Harmancová D., Esteva F., García P., Godo L.: On Modal Logics of Qualitative Possibility in a Fuzzy Environment. — In: Proceedings of the 10th Conference – Uncertainty in Artificial Intelligence (Editor: L. de Mantaras, D. Poole), Morgan-Kaufmann, San Francisco, 1994, 278-285
- [45] Hájek P.: Magari and others on Gödel's ontological proof. — IN PRINT
- [46] Hájek P.: Fuzzy Logic as Logic. — In: Mathematical Models of Handling Partial Knowledge in Artificial Intelligence (Editors: G. Coletti, D. Dubois, R. Scozzafava), Plenum Press, New York, 1995, 21-30
- [47] Hájek P.: Fuzzy Logic from the Logical Point of View. — In: SOFSEM '95: Theory and Practice of Informatics (Editors: M. Bartošek, J. Staudek, J. Wiedermann), Springer-Verlag, Berlin, 1995, 31-49
- [48] Hájek P.: Possibilistic Logic as Interpretability logic. — In: Advances in Intelligent Computing - IPMU '94 (Editors: B. Bouchon-Meunier, R. R. Yager, L. A. Zadeh), Springer-Verlag, Berlin, 1995, 243-280
- [49] Hájek P., Godo L., Esteva F.: Fuzzy Logic and Probability. — In: Proceedings of the 11th Conference – Uncertainty in Artificial Intelligence (Editors: P. Besnard, S. Hanks), Morgan Kaufmann, San Francisco, 1995, 237-244
- [50] Hájek P.: On Logics of Approximate Reasoning II. — In: Proceedings of the ISSEK 94 Workshop on Mathematical and Statistical Methods in Artificial Intelligence (Editors: G. della Riccia, R. Kruse, R. Viertl), Springer-Verlag, Wien, 1995, 147-156
- [51] Hlaváčková K., Verleysen M.: An Optimized RBF Network for Approximation of Functions. — In: European Symposium on Artificial Neural Networks – ESANN '94, D-Facto, Brussels, 1994, 175-180

- [52] Hlaváčková K.: An Upper Estimate of the Error of Approximation of Continuous Multivariable Functions by KBF Networks. — In: Proceedings of the 3rd European Symposium on Artificial Neural Networks ESANN '95 (Editor: M. Verleysen), D facta, Brussels, 1995, 333-340
- [53] Hlaváčková K., Kůrková V.: Rates of Approximation of Real-Valued Boolean Functions by Neural Networks. — IN PRINT
- [54] Holeňa M.: Neural Networks Architecture Choice Using the Structure of Families of Architectures. — In: NEURONET '93, ICS AS CR, Prague, 1993, 61-70
- [55] Holeňa M.: Order-Theoretic View of Families of Neural Network Architectures. — In: Proceedings of the 12th European Meeting on Cybernetics and Systems Research – Cybernetics and Systems' 94 (Editor: R. Trapp), Volume 2, World Scientific, Singapore, 1994, 1727-1734
- [56] Holeňa M.: Uncertainty Representation with HyKL. — In: Proceedings of the 4th SP1 JCF Workshop (Editor: C. Danner), FZI, Karlsruhe, 1994, 20
- [57] Holeňa M.: Wahl der Architektur eines neuronalen Netzes mittels der Theorie der Verbaende. — In: Fuzzy Logik. Theorie und Praxis. (Editor: B. Reusch), Springer-Verlag, Berlin, 1994, 330-338
- [58] Holeňa M., Laufkoetter G.: Specification Language for an Object-Oriented Knowledge Representation Capturing Frames, Rules and Uncertainty Processing. — In: Working Papers of the International Workshop on Information Systems-Correctness and Reusability – IS-CORE '94 (Editors: R. Wieringa, R. Feenstra), Vrije Universiteit, Amsterdam, 1994, 63-73
- [59] Holeňa M.: Exploratory Data Processing Using a Fuzzy Generalization of the GUHA Approach. — In: Applied Decision Technologies. Fuzzy Logic, Unicom Seminars, London, 1995, 139-142
- [60] Hořejš J.: Some Trends in ANN Architectures. — In: Proceedings of the 6th Microcomputer School – Neural Networks Theory and Applications, CCB, Brno, 1994, 9-22
- [61] Húsek D., Kučerová I.: Knowledge Representation by Cascaded Neural Network. — In: Databases and Knowledge Systems DB2 - Theory and Design of Expert Systems, Universitat Slezski, Zakopane, 1992
- [62] Húsek D., Frolov A., Muravje'v I.: Associative Memory Based on Sparsely Encoded Hopfield-Like Neural Network. — In: The Second International Symposium on Neuroinformatics and Neurocomputers, IEEE, Piscataway, 1995, 70-76
- [63] Húsek D., Frolov A., Muravje'v I.: Hopfield-Like Associative Memory and Pattern Matching. — In: Conference Proceedings of the Neural Networks & Their Applications, Marseilles, 1996, 46-51
- [64] Jiřina M.: Two Layer Binary Neural Net. — In: IFIP Congress '92 – From Research to Practice (Poster Paper), Olympia Maquinas de Oficina, Madrid, 1992, 46
- [65] Jiřina M.: The Time Series Extrapolation by a Neural Net. — In: IFIP Congress '92 (Poster Paper), Olympia Maquinas de Oficina, Madrid, 1992, 72
- [66] Jiřina M.: Growing Binary Limited Interconnection Neural. — In: MEASUREMENT '93, Academy of Sciences of Slovak Republic, Smolenice, 1993, 59-63
- [67] Jiřina M.: Control Strategy in Binary Neural Net. — In: NEURONET '93, ICS AS CR, Prague, 1993, 77-84
- [68] Jiřina M.: GMDH Net Modification for Credit Rating. — In: Proceedings of the 3rd IFIP WG-7.6 Working Conference on Optimization-Based Computer-Aided Modelling and Design (Editors: J. Doležal, J. Fidler), IITA AS CR, Prague, 1994, 175
- [69] Jiřina M.: The Modified GMDH - Sigmoidal and Polynomial Neural Net. — In: SYSID '94, Volume 1, Danish Automation Society, Copenhagen, 1994, 309-311

- [70] Jiřina M.: Sigmoidal GMDH Neural Net Learning with not Enough Data. — In: Proceedings of the 6th Microcomputer School – Neural Networks Theory and Applications, CCB, Brno, 1994, 137-144
- [71] Jiřina M.: SIMEDIT. Integrated Development Environment for SIMULA. — In: Proceedings of the 20th Conference of the ASU, ASU & TIMING Prague, Prague, 1994, 141-145
- [72] Jiřina M.: Triggering by Optoelectrical Neural Net. — In: ATLAS Trigger Performance Workshop, Commissariat a l'Energie Atomique, Paris, 1995, 1-4
- [73] Kestřánek Z.: Comparison of Methods for Solving the Contact Problem in Thermoelasticity by Finite Element Method. — In: Proceedings of the International Scientific Conference – Numerical Methods in Continuum Mechanics, Editing Centre VŠDS, Žilina, 1994, 128-135
- [74] Klán P., Maršík J.: Control Expert Advisor. — In: ICSPAT '94, Volume 2, DSP Associates, Waltham, 1994, 1103-1108
- [75] Klán P., Maršík J.: Adaptive Modelling and Control by Information Approach. — In: Proceedings of Conference Real Time '95 (Editors: V. Srovnal, J. Černožský), Technical University, Ostrava, 1995, 172-179
- [76] Klán P.: Novel Financial Data Models for Simulation and Forecasting. — In: Modelling and Simulation 1995, ESM 95, Simulation Councils, San Diego, 1995, 439-444
- [77] Kleidienst J., Plášil F., Tuma P.: Corba and Its Object Services. — IN PRINT, Springer-Verlag
- [78] Kleidienst J.: Have you Talked to your Computer Lately? — In: SOFSEM' 94. Invited Talks, ICS MU, Brno, 1994, 135-140
- [79] Klir G., Harmanec D.: On Some Bridges to Possibility Theory. — In: Proceedings of FAPT '95 – Foundations and Applications of Possibility Theory (Editors: G. de Cooman, Ruan Da, E. Kerre Etienne), World Scientific, Singapore, 1995, 3-19
- [80] Kočková S., Brůha I.: A Support for Decision Making in Medicine by Covering Learning Algorithm CN4. — In: European Conference on Machine Learning, Workshop Real-World Applications of ML (Editors: Y. Kodratoff, P. Langley), Department of Medical Cybernetics, University of Vienna, Vienna, 1993
- [81] Kočková S.: Evaluation Functions in the Multi-Interval Discretization Context. — IN PRINT
- [82] Kočvara M., Rozložník M., Xanthis L.: On Iterative Solvers for the Method of Arbitrary Lines. — In: HERMIS' 94. Proceedings of the 2nd Hellenic European Conference on Mathematics and Informatics (Editor: E. A. Lipitakis), Hellenic Mathematical Society, Athens, 1994, 261-272
- [83] Kramosil I.: Extensionality and Intensionality Principles in Uncertainty Processing. — In: LOGICA '91. (Ed.: V. Svoboda, I. Zapletal), Philosophical Institute (PI), Czechoslovak Academy of Sciences (CAS), Prague, 1992, 173-187
- [84] Kramosil I.: Parallel Probabilistic Searching Algorithms on Systolic Arrays. — In: Transactions of the 11th Prague Conference on Information Theory, Statistical Decision Functions and Random Processes (Editors: S. Kubík, J. Víšek), Academia, Prague, 1992, 119-134
- [85] Kramosil I.: The Most Simple Systolic Architectures for Parallel Probabilistic Searching Algorithms. — In: MICC '92 – Mutual Impact of Computing Power and Control Theory (Editors: M. Kárný, K. Warwick), IITA CS AS, Prague, 1992, 57-63
- [86] Kramosil I.: Boolean Possibility Measures. — In: Proceedings of the 2nd European Congress on Systems Science, Volume 3, IITA AS CR, Prague, 1993, 1071-1077
- [87] Kramosil I.: Toward a Boolean-Valued Dempster-Shafer Theory. — In: LOGICA '92, (Editor: V. Svoboda), PI AS CR, Prague, 1993, 110-131

- [88] Kramosil I.: The Most Simple Systolic Architectures for Parallel Probabilistic Searching Algorithms. — In: Mutual Impact of Computing Power and Control Theory-Proceedings of the IFAC Workshop (Editors: M. Kárný, K. Warwick), Plenum Press, New York, 1993, 97-110
- [89] Kramosil I.: An Intensional Interpretation and Generalization of Dempster-Shafer Approach to Uncertainty Processing. — In: LOGICA '93 – Proceedings of the 7th International Symposium, Filosofia, Prague, 1994, 105-122
- [90] Kramosil I.: A Note on Certain Approximations of Believeability Functions. — In: Transactions of the 12th Prague Conference – Information theory. Statistical Decision Functions. Random Processes (Editors: P. Lachout, J. A. Víšek), IITA AS CR, Prague, 1994, 130-133
- [91] Kramosil I.: Definability of Belief Functions over Countable Sets by Real-Valued Random Variables. — In: IPMU – Information Processing and Management of Uncertainty in Knowledge-Based Systems, Volume 3 - Posters, Cité Internationale Universitaire, Paris, 1994, 49-50
- [92] Kramosil I.: Strong Law of Large Numbers for Set-Valued Random Variables. — In: Proceedings of the 3rd Workshop on Uncertainty Processing in Expert Systems, University of Economics, Prague, 1994, 122-142
- [93] Kramosil I.: Embedding Dempster-Shafer Theory into a Generalized Probability Theory — In: Proceedings of the 8th International Symposium LOGICA '94 (Editors: T. Childers, O. Majer), Filosofia, Prague, 1994, 177-192
- [94] Kramosil I.: Believeability Functions Induced by Partial Generalized Compatibility Relations. — In: Proceedings of the 2nd International Conference on Fuzzy Sets Theory and its Applications – Fuzzy Sets '94 (Editors: R. Mesiar, V. Novák), Mathematical Institute Slovak Academy of Sciences (SAS), Bratislava, 1995, 103-116
- [95] Kramosil I.: An Axiomatic Approach to Extensional Probability Measures. — In: Symbolic and Quantitative Approaches to Reasoning and Uncertainty. (Editors: Ch. Froidevaux, J. Kohlas), Springer-Verlag, Berlin, 1995, 267-276
- [96] Kramosil I.: Possibilistic Measures with Nonstandard Supremum Operation. — In: The 3rd European Congress on Intelligent Techniques and Soft Computing – FUFIT '95 (Editor: H. J. Zimmermann), Volume 1, Verlag Mainz, Aachen, 1995, 50-54
- [97] Kramosil I.: Nonstandard Possibility Measures and Extensional Probability Measures. — In: Proceedings of Foundations and Applications of Possibility Theory – FAPT '95 (Editors: G. de Cooman, Ruan Da, E. Kerre Etienne), World Scientific, Singapore, 1995, 108-118
- [98] Kramosil I.: Some Remarks on Philosophical Aspects of the Laws of Large Numbers. — IN PRINT, Filosofia, Prague
- [99] Kufudaki O., Hořejš J., Húsek D.: Coupled Backpropagation Learning and Underlying Multilayered Network Geometry. — In: Theoretical Aspects of Neurocomputing – Selected Papers from the Symposium on Neural Networks and Neurocomputing (NEURONET '90), (Editors: M. Novák, E. Pelikán), World Scientific, Singapore, 1991, 195-212
- [100] Kufudaki O., Hořejš J.: Weightless and Threshold-Controlled Neurocomputing. — In: Proceedings of the Eleventh European Meeting – Cybernetics and Systems Research '92 (Editor: R. Trappl), Volume 2, World Scientific, Singapore, 1992, 1399-1404
- [101] Kůrková V.: 13th Hilbert's Problem and Neural Networks. — In: Theoretical Aspects of Neurocomputing – Selected Papers from the Symposium on Neural Networks and Neurocomputing (NEURONET '90), (Editors: M. Novák, E. Pelikán), World Scientific, Singapore, 1991, 213-216
- [102] Kůrková V.: Universal Approximation Using Feedforward Neural Networks with Gaussian Bar Units. — In: Proceedings of ECAI '92 (Editor: B. Neumann), Wiley and Sons, Chichester, 1992, 193-197

- [103] Kůrková V., Kainen P.: Error-Correcting Classification by Feedforward Networks. — In: World Congress on Neural Networks '93, Volume IV, INNS Press, Portland, 1993, 80-83
- [104] Kůrková V., Hlaváčková K.: Uniform Approximation by the KBF Networks. — In: NEURONET '93, ICS AS CR, Prague, 1993, 96-102
- [105] Kůrková V., Kainen P.: Affinely Recursive Functions and Neural Networks. — In: Proceedings of 14th IMACS World Congress on Computational and Applied Mathematics, Volume 2, Georgia Institute of Technology, Atlanta, 1994, 776-779
- [106] Kůrková V.: Optimal Weight Spaces for Feedforward Neural Networks. — In: Preprints of the European IEEE Workshop CMP' 94 – Computer-Intensive Methods in Control and Signal Processing (Editors: M. Kárný, L. Kulhavá, K. Warwick), IITA AS CR, Prague, 1994, 9-14
- [107] Kůrková V., Hlaváčková K.: Approximation of Continuous Functions by RBF and KBF Networks. — In: European Symposium on Artificial Neural Networks – ESANN '94, D-Facto, Brussels, 1994, 167-174
- [108] Kůrková V., Neruda R.: Uniqueness of Functional Representations by Gaussian Basis Function Networks. — In: Proceedings of ICANN '94, Springer Verlag, London, 1994, 471-474
- [109] Kůrková V., Šmíd J.: An Incremental Architecture Algorithm for Feedforward Neural Nets. — In: Computer-Intensive Methods in Control and Signal Processing (Editors: L. Kulhavá, M. Kárný, K. Warwick), IITA AS CR, Prague, 1994, 15-19
- [110] Kůrková V.: Approximation of Functions by Gaussian RBF Networks with Bounded Number of Hidden Units. — In: Proceedings of the 3rd European Symposium on Artificial Neural Networks – ESANN '95 (Editor: M. Verleysen), D facta, Brussels, 1995, 321-326
- [111] Kůrková V., Kainen P., Kreinovich V.: Dimension Independent Rates of Approximation by Neural Networks and Variation with Respect to Half-Spaces. — In: Proceedings of WCNN '95, Volume 1, INNS Press, Washington, 1995, 54-57
- [112] Kůrková V., Beliczynski B.: Incremental Approximation by One-Hidden-Layer Neural Networks. — In: International Conference on Artificial Neural Networks – ICANN '95 – NEURONIMES '95 (Editors: F. Fogelman-Soulié, P. Gallinari), Volume 1, EC2 & Cie, Paris, 1995, 505-510
- [113] Kůrková V.: Emergence of Patterns in Neurcomputing. — In: Advances in Synergetic (Editors: G. Lasker, G. Farre), IIAS, Windsor, 1995, 31-36
- [114] Kůrková V., Beliczynski B.: An Incremental Learning Algorithm for Gaussian Radial-Basis-Function Approximation. — In: Proceedings of the Second International Symposium on Methods and Models in Automation and Robotics (Editors: S. Banka, S. Domek, Z. Emirsajlow), Warsaw, 1995, 675-680
- [115] Kůrková V., Kainen P.: A geometric Method to Obtain Error-Correcting Classification by Neural Networks with Fewer Hidden Units. — IN PRINT
- [116] Kůrková V.: Trade-off Between the Size of Parameters and the Number of Units in One-Hidden-Layer Networks. — IN PRINT
- [117] Lefmann H., Savický P.: Some Typical Properties of Large AND/OR Boolean Formulas. — In: Proceedings of the 20th International Symposium Mathematical Foundations of Computer Science 1995 (Editors: J. Wiedermann, P. Hájek), Springer, Berlin, 1995, 237-246
- [118] Lukšan L., Vlček J.: An Algorithm for Large Sparse Equality Constrained Nonlinear Programming Problems. — IN PRINT
- [119] Maršík J., Klán P.: A nonlinear PID Controller. — In: Proceedings of the 3rd IFIP Working Conference on Optimization-Based Computer-Aided Modelling and Design (Editors: J. Doležal, J. Fidler), IITA AS CR, Prague, 1994, 293-298

- [120] Maryška J., Mužák J.: Mathematical Modelling of the Transport of Chemical Species in the Contaminated Underground Water. — In: Proceedings of the Conference on Mathematical Modelling of Flow Through Porous Media (Editors: A. P. Bourgeat, C. Carasso, S. Luckhaus, A. Mikelić), World Scientific, Singapore, 1995, 450-459
- [121] Mrázová-Kučerová I.: Knowledge Representation in Neural Networks. — In: NEURONET '93, ICS AS CR, Prague, 1993, 118-119
- [122] Nedoma J.: On the Genesis of the Transverse Channel Wave. — In: Geomechanics '91 (Editor: Rakowski), Balkema, Rotterdam, 1992, 159-166
- [123] Nedoma J., Stehlík J.: Biomechanical Investigations of Human Hip Joints. — In: Proceedings of the 3rd International Seminar IASS Shapes, Structures, Functions and Areas in Technics, Bionics and Biomechanics, Faculty of Civil Engineering, Czech Technical University, Prague, 1992, 37-48
- [124] Nedoma J., Hladík I.: Finite Element Analysis of the Nonstationary Incompressible Thermo-Bingham Problem. — In: Proceedings of International Symposium on Numerical Analysis, Volume 3 – Contributed Papers, Prague, 1993, 211-228
- [125] Nedoma J.: Numerical Modelling of Tectonic Evolution of Collision Zones. — In: Complex Space-time Geophysical Structures, La Citadelle, Paris, 1994, 348-351
- [126] Neruda R., Štědrý A.: Neural Networks With One Type of Cascade Architecture. — In: SOFSEM '94 (Contributed Talks), ICS MU, Brno, 1994, 69-72
- [127] Neruda R., Štědrý A.: Approximation Capabilities of Chain Architectures. — In: International Conference on Artificial Neural Networks – ICANN '95 – NEURONIMES '95 (Editors: F. Fogelman-Soulié, P. Gallinari), Volume 1, EC2 & Cie, Paris, 1995, 575-580
- [128] Neruda R.: Functional Equivalence and Genetic Learning of RBF Networks. — In: Proceedings of the International Conference Artificial Neural Nets and Genetic Algorithms (Editors: D. W. Pearson, N. C. Steele, R. F. Albrecht), Springer-Verlag, Wien, 1995, 53-56
- [129] Nespurek S., Pecen L.: Photochromic Memories Based on 1, 4-Dihydropyridines: A New Approach to the Analysis of Molecular Movements. — In: Proceedings of the First World Congress for Electricity and Magnetism in Biology and Medicine, URSI Commission, Orlando, 1992
- [130] Nguyen H.: Approach to Combining Negative and Positive Evidence in CADIAG-2. — In: Proceedings of the 3rd European Congress on Intelligent Techniques and Soft Computing FUFIT '95 (Editor: H. J. Zimmermann), Volume 3, Verlag Mainz, Aachen, 1995, 1653-1658
- [131] Nguyen H.: Fuzzy Set Theory and Medical Expert Systems: Survey and Model. — In: SOFSEM '95 – Theory and Practice of Informatics (Editors: M. Bartošek, J. Staudek, J. Wiedermann), Springer-Verlag, Berlin, 1995, 431-436
- [132] Nguyen H., Tran Q., Nguyen V., Nguyen N.: CHROMASSI: A Therapy Advice System Based on Chrono-Massage and Acupression Using the Method of ZiWuLiuZhu. — In: Proceedings of the Eighth World Congress on Medical Informatics MEDINFO '95 (Editors: R. A. Greenes, H. E. Peterson, D. J. Protti), IMIA, Edmonton, 1995, 998
- [133] Novák M.: Tolerance Problems in Artificial Neural Networks. — In: Measurement '92, Slovak Academy of Sciences (SAS), Bratislava, 1992, 100-101
- [134] Novák M.: Neural and Molecular Computing - Trends and Neuro Questions. — In: International Conference on Image Processing and Neural Networks '93, Military Technical University, Liptovský Mikuláš, 1993, 1-8
- [135] Novák M., Šebesta V., Kamenický J., Přenosil V., Žihla V.: Life-Curves Prediction for Reliability Improvement. — In: 39. Internationales Wissenschaftliches Kolloquium, Volume 2 – Neuroinformatik. Biomedizinische Technik. Medizinische Technik, Technische Universität Ilmenau, Ilmenau, 1994, 27-30

- [136] Novák M., Přenosil V.: Novel Aspects in Simulation of Complicated Technical Systems. — In: Proceedings of the International Scientific Seminar on New Information Technologies and Their Applications in Simulation, Computer graphic, Multimedia and Virtual Reality – Multimedia World and Virtual Reality, INVEX-CCT '94, DeINFO, Brno, 1994, 1-7
- [137] Novák M.: Tolerance Problems in Neural Networks. — In: Proceedings of the 6th Microcomputer School – Neural Networks Theory and Applications, CCB, Brno, 1994, 113-123
- [138] Novák M., Šebesta V.: Some New Tools for Improvement of the Transportation Systems Reliability and Life-time. — IN PRINT
- [139] Pecen L.: Functional Approximation Using Feedforward Nets with Arbitrary Bounded Weights, the Differences from the Orthogonal Projection. — In: NEURONET '93, ICS AS CR, Prague, 1993, 138-140
- [140] Pecen L., Beran H., Pelikán E.: Short-Term Foreign Exchange Rate Forecasting From High-Frequency Data. — In: Proceedings of Neural Networks in the Capital Markets, CALTECH, Pasadena, 1994, (unnumbered) 2 pages
- [141] Pecen L., Eben K., Kaušitz J., Kuliffay B.: Modelling Relations of Cytosolic Concentrations of ER, PS2, CAMP in Primary Breast Carcinoma Cells. — In: The 1st World Congress on Computational Medicine, Public Health and Biotechnology, Texas University, Austin, 1994, (unnumbered) 2 pages
- [142] Pecen L., Beran H., Pelikán E.: Short-Term Foreign Exchange Rate Forecasting From Tick Data Stochastic Differential Equation Approximation. — In: First International Conference on High Frequency Data in Finance HFDF-I, Université de Bourgogne, Dijon, 1994
- [143] Pelikán E.: Neural Networks in Electric Load Forecasting. — In: NEURONET '93, ICS AS CR, Prague, 1993, 141-145
- [144] Pelikán E., Šebesta V.: Neural Network Learning Algorithms for Electric Load Forecasting. — In: Applications of Artificial Neural Networks 5, SPIE, Orlando, 1994, 2243-2257
- [145] Plášil F.: Employing Multiple Inheritance in the OBJIX Microkernel. — In: Proceedings of the Third International Workshop on Object Orientation in Operating Systems, IEEE, 1993, 146-149
- [146] Plášil F., Grof M.: An Approach to Overcomming the Inheritance Anomaly. — In: SOFSEM '94 (Contributed Talks), ICS MU, Brno, 1994, 79-83
- [147] Querinjean P., Andrej L.: Chaodynamics and Biomatics May Provide Top Quality Informations. Application to Health Maintenance. — IN PRINT
- [148] Rozložník M., Strakoš Z.: On the Implementation of Some Residual Minimizing Krylov Space Methods. — In: SOFSEM '95 – Theory and Practice of Informatics (Editors: M. Bartošek, J. Staudek, J. Wiedermann), Springer-Verlag, Berlin, 1995, 449-454
- [149] Rozložník M., Strakoš Z.: Variants of the Residual Minimizing Krylov Space Methods. (Editor: J. Marek) — IN PRINT, University of West Bohemia
- [150] Růžička P.: Neural Net Configuration Design Using Theory of Sensitivity and Tolerances. — In: Theoretical Aspects of Neurocomputing – Selected Papers from the Symposium on Neural Networks and Neurocomputing (NEURONET '90), (Editors: M. Novák, E. Pelikán), World Scientific, Singapore, 1991, 217-229
- [151] Růžička P.: Neural Net Configuration Design Using Theory of Sensitivity and Tolerances. — In: Proceedings IJCNN '92, Baltimore, 1992, 625-630
- [152] Růžička P.: On Convergence of Learning Algorithm for Topological Maps. — In: NEURONET '93, ICS AC CR, Prague, 1993, 163-171

- [153] Růžička P., Hrycej D.: Topological Maps for Invariant Features Representation and Analysis of their Convergence. — In: Proceedings of the 6th International Conference on Neural Networks and Their Industrial & Cognitive Applications, 1993, 435-444
- [154] Řízek S., Frolov A.: Model of Differential Neurocontroller. — In: Proceedings of the 6th Microcomputer School – Neural Networks Theory and Applications, CCB, Brno, 1994, 197-202
- [155] Sirisaengtaksin O., Kainen P., Kreinovich V., Kůrková V.: For Neural Networks, Even Approximate Function Determines Form. — In: Proceedings of Neural, Parallel and Scientific Computations (Editors: S. K. Aityan, L. T. Grujic, R. J. Hathaway, G. S. Ladde, N. Medhin, M. Sambandham), Volume 1, Dynamic Publishers Inc, 1995, 424-426
- [156] Stehlík J., Nedoma J., Bartoš M.: Mathematical Modelling of the Human Hip Joint and its Total Replacement. — In: Proceedings of the IMACS Symposium on Mathematical Modelling, Technical University Vienna, Vienna, 1994, 348-351
- [157] Strakoš Z., Tůma M.: Current Trends in Numerical Linear Algebra: From Theory to Practice. — In: SOFSEM '94, Volume 1 (Invited Talks), ICS MU, Brno, 1994, 229-247
- [158] Šebesta V., Novák M.: Neural Network Learning by Tolerance Optimization. — In: Proceedings of the 2nd Conference on Fuzzy Logic and Neural Networks, Volume 1, Fuzzy Logic Systems Institute, Iizuka, 1992, 181-184
- [159] Šebesta V.: Utilization of Transputers for the Statistical Model Search. — In: Workshop on Progress in Transputer Computing Technology, IITA AS CR, Prague, 1993, 1-8
- [160] Šebesta V.: Transputer Realization of the Statistical Model Verification. — In: SOFSEM '93, ICS Brno, Bratislava, 1993, 73-77
- [161] Šebesta V.: Centering Procedure for Neural Network Optimization and Pruning. — In: NEURONET '93, ICS AS CR, Prague, 1993, 199-206
- [162] Šebesta V.: Pruning of Neural Networks by Statistical Optimization. — In: Proceedings of the 6th Microcomputer School – Neural Networks Theory and Applications, CCB, Brno, 1994, 209-214
- [163] Šíma J., Neruda R.: EXPSYS - A Tool for Neural Expert System Design. — In: NEURONET '93, ICS AS CR, Prague, 1993, 208-213
- [164] Šíma J.: Neural Learning is not Efficient. — In: SOFSEM '94 (Contributed Talks), ICS MU, Brno, 1994, 107-110
- [165] Šíma J., Neruda R.: The Empty Expert System and its Application in Medicine. — In: Proceedings of the 12th European Meeting on Cybernetics and Systems Research – EMCSR '94, Volume 1, World Scientific, Singapore, 1994, 1825-1832
- [166] Šíma J.: Hopfield Languages. — In: SOFSEM '95 – Theory and Practice of Informatics (Editors: M. Bartošek, J. Staudek, J. Wiedermann), Springer-Verlag, Berlin, 1995, 461-468
- [167] Šíma J., Wiedermann J.: Neural Language Acceptors. — IN PRINT, World Scientific Publishing, Singapore
- [168] Šnorek M., Jiřina M.: Paradigms Classification with Respect to Binary Neural Chips. — In: NEURONET '93, ICS AS CR, Prague, 1993, 214-217
- [169] Štuller J.: Inconsistency Resolution in the Databases Integration. — In: COFAX – Hardware, software, telecommunications, office, Dom techniky ZSVTS, Bratislava, 1995, 102-107
- [170] Štuller J.: Inconsistency Conflict Resolution in the Integration of the Databases. — In: Computer Science (Editors: I. Vondrák, J. Štefan), Technical University, Ostrava, 1995, 283-289

- [171] Štuller J.: Inconsistency Conflict Resolution. — In: SOFSEM '95 – Theory and Practice of Informatics (Editors: M. Bartošek, J. Staudek, J. Wiedermann), Springer-Verlag, Berlin, 1995, 469-474
- [172] Štuller J.: Inconsistency Problems in the Information Systems Integration. — In: Lecture Notes on Biomathematics and Bioinformatics '95 (Editor: M. Candev), DATECS Publishing, Sofia, 1995, 67-71
- [173] Tomečková M., Zvárová J., Boudík F.: Computer Supported Risk Assessment in Primary Preventive Study of Atherosclerosis. — In: MEDINFO '95 — IN PRINT, Elsevier, Amsterdam
- [174] Tůma M.: Intermediate Fill-in in Sparse QR Decomposition. — In: Linear Algebra for Large Scale and Real-Time Applications (Editors: B. de Moor, G. H. Golub, M. Moonen), Kluwer Academic Publishers, Dordrecht, 1993, 425-426
- [175] Tůma M., Rozložník M.: On the Efficiency of Superscalar and Vector Computer for Some Problems in Scientific Computing. — In: SOFSEM 95 – Theory and Practice of Informatics (Editors: M. Bartošek, J. Staudek, J. Wiedermann), Springer-Verlag, Berlin, 1995, 481-486
- [176] Vítková G.: Neural Networks Based Knowledge Systems. — In: International Workshop on Database System Intellectualization - IDS '92, Znanie-Dialog-Rešenie, 1992
- [177] Wang Z., Klir G., Harmanec D.: On Structural Characteristic of Monotone Set Functions Defined by Fuzzy Integral. — In: Proceedings of VI IFSA World Congress, Volume 2, Sao Paulo, 1995, 421-422
- [178] Wiedermann J.: Efficient Simulations of Nondeterministic Computations and Their Speed-up by the Ring of Cooperating Machines. — In: International Workshop on Fundamentals of Artificial Intelligence Research – FAIR '91, Volume 535, Springer-Verlag, Berlin, 1991, 59-70
- [179] Wiedermann J.: Some Afterthoughts on Computational Learning Theory. — In: Proceedings of SOFSEM '91, ICS MU, Brno, 1991, 271-274
- [180] Wiedermann J.: Weak Parallel Machines: A New Class of Physically Feasible Parallel Machine Models. — In: Proceedings of the 17th International Symposium Mathematical Foundations of Computer Science 1992 (Editors: I. M. Havel, V. Koubek), Springer-Verlag, Berlin, 1992, 95-111
- [181] Wiedermann J.: Optimal Algorithms for Sorting on Single Tape Turing Machines. — In: Proceedings of the IFIP Information Processing '92 – Algorithms, Software, Architecture (Editor: J. van Leeuwen), Volume 1, North-Holland, Amsterdam, 1992, 306-314
- [182] Wiedermann J., Šíma J., Neruda R.: Massaging Heapsort into an Optimal Disk Sorting Algorithm. — In: SOFSEM '94 (Contributed Talks), ICS MU, Brno, 1994, 117-120
- [183] Wiedermann J.: Theory of Parallel Machine Models: How It Is and Where It Goes. — In: SOFSEM '95 – Theory and Practice of Informatics (Editors: M. Bartošek, J. Staudek, J. Wiederman), Springer-Verlag, Berlin, 1995, 1-30
- [184] Wiedermann J.: Quo Vadetis, Parallel Machine Models? — In: Computer Science Today – Recent Trends and Developments (Editor: J. van Leeuwen), Springer-Verlag, Berlin, 1995, 101-114
- [185] Wiedermann J.: Speeding-up Single-Tape Nondeterministic Computations by Single Alternation, with Separation Results. — IN PRINT, Springer-Verlag, Berlin
- [186] Zvárová J.: The Impact of the Contemporary Data Analysis on Medicine and Health Care. — In: Proceedings of the Fifth International Conference on System Science in Health Care (Editor: E. Chytil), Omnipress Publish, Prague, 1992, 1200-1203
- [187] Zvárová J., Dostál C., Ivaskova E.: On Statistical Analysis of Genetic Risk Factors. — In: MEDINFO '92 - World Congress on Medical Informatics (Editors: K. C. Lun, P. Degoulet, T. E. Piemme, O. Reinhoff), Volume 2, Elsevier, Amsterdam, 1992, 895-899

- [188] Zvárová J.: New Trends and Perspectives in Medical Informatics, statistics and Epidemiology Education. — In: MEDICOMP '92, SZOTE, Szeged, 1992, 328-330
- [189] Zvárová J.: Education in the Methodology Field of Health Care. — In: Preventive and Clinical Medicine in Changing Europe (Editors: D. Salát, L. Badalík, V. Krčmáry), SYMPOS, Tatranská Polianka, 1994, 53-59
- [190] Zvárová J., Hájek P.: Medical Decision Making and Uncertainty Management. — In: Knowledge and Decisions in Health Telematics (Editors: P. Barakova, J. P. Christenson), IOS Press, Amsterdam, 1994, 224-225
- [191] Zvárová J.: Postgraduate Education in Medical Statistics at The Charles University in Prague. — In: Proceedings of the 4th International Conference on Teaching Statistics, Volume 1, The National Organizing Committee of International Conference, Marrakech, 1994, 396-402
- [192] Zvárová J.: Medical Informatics Education in the Euromise Courses. — In: The 3rd Panhellenic Congress on Medical Informatics., University of Thessaloniki, Thessalonici, 1994
- [193] Zvárová J.: Medical Informatics Education and Research: European Enterprise in the Czech Republic. — In: Conference Proceedings Current Perspectives in Healthcare Computing, British Computer Society, Weybridge, Surrey, 1995, 262-266
- [194] Zvárová J.: European Cooperation within TEMPUS-PHARE EuroMISE Project. — In: EuroMISE 95 – Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 85-86
- [195] Žák S.: A Superpolynomial Lower Bound for $(1,+k(n))$ -branching programs. — In: Proceedings of the 20th International Symposium Mathematical Foundations of Computer Science 1995 (Editors: J. Wiedermann, P. Hájek), Springer, Berlin, 1995, 319-325

4 Abstracts in proceedings of international conferences

- [1] Andrej L., Hrycej D.: Forecasting of Chaotic Behaviour by Neural Networks. — In: STATPHYS '18 (Proceedings of Abstracts), Springer-Verlag, Berlin, 1992
- [2] Andrej L.: System Dynamics Analysis of "Shock Therapy". — In: International System Dynamics Conference, 1992
- [3] Andrej L.: Single Chaotic Neuron with Lambda - Theta Mechanism. (Abstract). — In: NEURONET '93, ICS AS CR, Prague, 1993, (unnumbered) 1 page
- [4] Andrej L., Kufudaki O.: Thresholds - Gain Mechanism: Theory and Simulation. (Abstract). — In: NEURONET '93, ICS AC CR, Prague, 1993, (unnumbered) 2 pages
- [5] Andrej L., Kufudaki O.: Neural Networks, Chaos Generation & Transfer of Information in Brain. — In: The 1st Conference of the Czech Neuroscience Society with International Participation – Theoretical and Clinical Aspects of Neurosciences, Czech Medical Association, Prague, 1994, 40
- [6] Andrej L.: Single Neuron Chaos is Natural - What About Consequences? — In: STATPHYS '19 (Programme and Abstracts), Institute of Theoretical Physics AS, Beijing, 1995, 186
- [7] Andrej L.: Chaos, Period-Doubling Reversals, and Predictability. — IN PRINT
- [8] Andrej L., Kufudaki O.: Single Neuron Chaos is Natural. — IN PRINT
- [9] Beran H.: Banking and Energetics in the Czech Republic - Open Problem for Neural Network Explorations. (Abstract). — In: NEURONET '93, ICS AS CR, Prague, 1993, 3
- [10] Bitzan P.: Neural Network Simulator . — In: In: Proceedings of the International Workshop on Parallel Problem Solving from Nature - Applications in Statistics and Economics (Editors: D. Wurtz, F. Murtagh), Swiss Federal Institute of Technology, Zurich, 1991, 167-171
- [11] Bitzan P., Šmejkalová J.: An Expert System Based on a Metric of a Neural Network. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 4
- [12] Eben K., Vondráček J.: Tumor Marker Follow-up: a Statistical Viewpoint. — In: Education and Research in Medical Informatics (Editors: J. H. van Bemel, J. Zvárová), EuroMISE Center of Charles University, Prague, 1994, 16
- [13] Fabián Z.: Influence Function of the Distribution. — In: The 21st European Meeting of Statisticians, University of Aarhus, Aarhus, 1995, 143
- [14] Frolov A., Húsek D.: Information Capacity of Hopfield Network. — In: NEURONET '93, ICS AS CR, Prague, 1993, (unnumbered) 2 pages
- [15] Frolov A., Řízek S.: Model of Neurocontrol of Redundant Systems. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 18
- [16] Golub G., Strakoš Z.: Rounding Errors in the Gauss Quadrature Calculations and in Computing Continued Fractions. (Abstract). — In: The XIIth Householder Symposium on Numerical Algebra (Editors: T. F. Chau, G. H. Golub), UCLA, Los Angeles, 1993, 74-76
- [17] Hájek P.: Deriving Dempster's Rule. (Extended abstract) — In: Proceedings of the International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems IPMU '92, Universitat de les Illes Balears, Valldemossa, 1992, 73-75

- [18] Hájek P.: On Logics of Approximate Reasoning. — In: Modeling '94 (Abstracts), ICS AS CR, Prague, 1994, 23
- [19] Hájek P., Harmancová D.: Medical Fuzzy Expert Systems and Reasoning about Beliefs. — In: Artificial Intelligence in Medicine (Editors: P. Barahona, M. Stefanelli, J. Wyatt), Springer, Berlin, 1995, 403-404
- [20] Hájek P., Kramosil I.: Ten Claims about Fuzzy Logic. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 24
- [21] Húsek D., Frolov A.: Measurement of Capacity Hopfield Like Neural Networks. — In: MEASUREMENT '93, AS SR, Smolenice, 1993, (unnumbered)
- [22] Kestřánek Z., Bartoš M.: Numerical Solution of the Contact Problem – Application to a Simple Model of the Human Hip Joint. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 74
- [23] Kočková S.: Computerized Knowledge Acquisition. (Extended Abstract). — In: Education and Research in Medical Informatics, EuroMISE Center, Prague, 1994, 19
- [24] Krejčí R., Bartoš M., Dvořák J., Stehlík J., Nedoma J., Novický M.: The 2D and 3D Finite Element Pre- and Post-processing in Orthopaedy. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 42
- [25] Kufudaki O., Novák M.: Parameter Tolerances and Generalisation Abilities of Cellular Neural Networks. — In: Proceedings of the International Workshop on Cellular Neural Networks and their Applications – CNNA '92, IEEE, Munich, 1992
- [26] Kufudaki O., Hořejš J.: Learning without Synaptic Plasticity. — In: Mechanisms of Neural Plasticity, 1992
- [27] Kufudaki O., Markuciová D., Černý M., Hálová S.: Modelling of Preference Aggregation by Neural Nets. — In: The 35th World Meeting of European Group on Multicriterial Methods for Decision, 1992
- [28] Kufudaki O., Andrej L.: Lambda-Theta Adaptation. — In: Proceedings of the IBRO Workshop on Mechanism of Neural Plasticity, 1992
- [29] Kufudaki O., Andrej L.: Threshold Regulated Neuronal Dynamics, 1993
- [30] Kufudaki O., Vojáček M., Andrej L., Hořejš J.: Threshold - Gain Mechanism in Hopfield - Like Networks. (Abstract). — In: NEURONET '93, ICS AS CR, Prague, 1993, 95
- [31] Kufudaki O., Hořejš J.: Threshold - Gain Mechanism in Layered Networks. (Abstract). — In: NEURONET '93, ICS AS CR, Prague, 1993, 94
- [32] Marková M., Ryšavá J., Zvárová J.: Agenesis of Third Molars. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 46
- [33] Nedoma J.: Analysis of Magnetodynamics of the Thermo-Bingham Fluid under the Gravity Fields. — In: Proceedings of the International Congress of Mathematicians ICM' 94 (Abstracts of short communications), Zurich, 1994, 218
- [34] Nedoma J.: Nonlinear Analysis of Generalized Thermo-Magnetodynamic Problem. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 42
- [35] Nedoma J., Dvořák J.: On the FEM Solution of a Coupled Contact-Two-Phase Stefan Problem in Thermo-elasticity – Coercive Case. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 43
- [36] Nedoma J., Stehlík J.: Mathematical Simulation of Osteotomy, Numerical Analysis and Results. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 44

- [37] Novák M.: Neural Network Optimization Through Prunning. — In: Measurement '93, Institute of Measurement, SAS, Smolenice, 1993, (unnumbered)
- [38] Novák M., Šebesta V., Pelikán E.: Forecasting and System Reliability. — IN PRINT
- [39] Pecen L., Eben K., Sláma M.: CRACTER System. (Cancer Recurrence, Analysis, Correlation and Testing). — In: Education and Research in Medical Informatics (Editors: J. H. van Bommel, J. Zvárová), EuroMISE Center, Prague, 1994, 23
- [40] Peleška J., Švejda D., Zvárová J.: Computer Supported Decision Making in Therapy of Arterial Hypertension. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 55
- [41] Pelikán E., Sovka P.: A Comparative Study to Classical and Neural Networks Approach to the Alpha-Activity Recognition. — In: Proceeding EEG Signals, 1991, 81
- [42] Pelikán E.: Back-Propagation for Wavelet Detection. — In: Proceedings of the International Workshop on Parallel Problem Solving from Nature - Applications in Statistics and Economics (Editors: D. Wurtz, F. Murtagh), Swiss Federal Institute of Technology, Zurich, 1991, 159
- [43] Pelikán E., Honing J.: Neural Network for Data Analysis – The Development System NESP. — In: Proceedings of the International Workshop on Parallel Problem Solving from Nature - Applications in Statistics and Economics (Editors: D. Wurtz, F. Murtagh), Swiss Federal Institute of Technology, Zurich, 1991, 160-163
- [44] Pelikán E.: Higher Level Neural Networks Based Forecasting Models. (Abstract). — In: Proceedings of the 13th International Symposium on Forecasting, Pittsburgh, 1993, 60
- [45] Pelikán E., Beran H., Pfeffer D., Novák M.: Neural Forecasting in Power Distribution. (Abstract). — In: ISF '94, Stockholm School of Economics, Stockholm, 1994, 42
- [46] Pfeffer D., Stančák A.: System Identification and Dynamics Prediction in Neurophysiology. — In: Education and Research in Medical Informatics (Editors: J. H. van Bommel, J. Zvárová), EuroMISE Center, Prague, 1994, 25
- [47] Rozložník M.: Variants of the Generalized Minimal Error Method. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 52
- [48] Stehlík J., Bartoš M., Kestřánek Z., Nedoma J.: Application of Numerical Modelling of Osteotomy in Orthopaedic Practice. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 72
- [49] Straka L., Kmoníček M., Šebesta V.: Prediction of Cytostatic Treatment Induced Bleeding Using an Artificial Neural Network. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 74
- [50] Strakoš Z., Rozložník M.: Convergence, Numerical Stability and Optimal Implementation of the GMRES Method. — In: The 4th Conference of the International Linear Algebra Society, Erasmus University, Rotterdam, 1994, 125
- [51] Strakoš Z.: Numerical Stability of GMRES. (Abstract). — In: Tagungsbericht 16/1994, Mathematisches Forschungsinstitut, Oberwolfach, 1994, 15
- [52] Strakoš Z.: Convergence of the GMRES Method. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 59
- [53] Šebesta V.: Strengh and Weakness of Neural Networks. — In: Education and Research in Medical Informatics (Editors: J. H. van Bommel, J. Zvárová), EuroMISE Center, Prague, 1994, 40

- [54] Šebesta V.: The Utilization of Neural Networks in Medical Informatics. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 66-67
- [55] Štefek M., Švejda D., Zvárová J.: Epidemiology Tools Program and Selected Medical Applications. — In: EuroMISE 95: Information, Health and Education. (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 71
- [56] Štuller J.: Ordered Modified Gram-Schmidt Orthogonalization Revised. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 61
- [57] Štuller J.: Inconsistency Problems in the Information Systems Integration. — In: BIOMATH '95 (Editors: E. D. Popova, S. M. Markov, Ch. Ullrich), DATECS Publishing, Sofia, 1995, 77
- [58] Tomečková M., Zvárová J., Boudík F., Bultas J., Horký K., Šimek S., Danzig V., Zvára K., Jedlička J., Kmoníček P.: Computer Supported Risk Assessment in Primary Preventive Study of Atherosclerosis. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 78
- [59] Topolčan O., Svobodová Š., Pecen L.: Tumor Markers - History and Exploitation. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 79
- [60] Tůma M., Rozložník M.: On the Solution of Symmetric Indefinite Systems in the Underground Water Flow Modelling. — In: Modelling '94 (Abstracts), ICS AS CR, Prague, 1994, 63
- [61] Wiedermann J.: On the Computational and Descriptive Complexity of Finite Neural Networks. — IN PRINT
- [62] Zvárová J.: Education in the Methodology Field of Health Care. — In: Preventive and Clinical Medicine in Changing Europe (Editors: D. Salát, V. Salátová), SYMPOS, Tatranská Polianka, 1994, 18
- [63] Zvárová J., Dostál C.: Computer Supported Analysis of Immunogenetic Risk Factors. — In: Book of Abstracts of the 2nd East European Conference on Biomedical Engineering and 3rd National Conference of the Czechoslovak Society of Biomedical Engineering, Prague, Czechoslovak Society of Biomedical Engineering, 1991, 112
- [64] Zvárová J., Dostál C.: On Association of Immunogenetic Risk Factors and Diseases. — In: Education and Research in Medical Informatics, EuroMISE Center, Prague, 1994, 45
- [65] Zvárová J., Studený M.: Information Theoretical Approach to Constitution and Reduction of Medical Data. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 88
- [66] Zvárová J., Preiss J., Sochorová A.: Analysis of Data about Epileptic Patients Using GUHA Method. — In: EuroMISE 95: Information, Health and Education (Editors: J. Zvárová, I. Malá), EuroMISE Center, Prague, 1995, 87
- [67] Zvárová J.: EuroMISE Courses on Medical Informatics. — In: MEDINF '95 (Extended Abstracts), Romanian Medical Informatics Society, Bucharest, 1995, (unnumbered) 4 pages
- [68] Zvárová J., Tomečková M., Štefek M., Švejda D.: Epidemiology Tools Program and Selected Medical Applications. — In: MEDINF '95 (Extended Abstracts), Romanian Medical Informatics Society, Bucharest, 1995, (unnumbered)

5 Papers in proceedings of national conferences

- [1] Andrej L.: Transmission of Chaos by Neural Networks. — In: The 2nd East European Conference on Biomedical Engineering, 1991
- [2] Beran H.: Zpracování onkologických dat umělými neuronovými sítěmi. Některé výsledky time-delay neural net na 10-tiletém monitorování pacientek s karcinomem prsu. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecan), ICS CAS, Prague, 1992, 65-66
- [3] Černocho M., Šimíčková M., Pecan L., Lang B., Stratil P., Vermousek I., Nekulová M., Rejthar A., Chytrý, Šmėrková, Křepela, Detáry: Prognostická cena některých enzymů ve tkáni karcinomu prsu. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkolgii" (Editor: L. Pecan), ICS CAS, Prague, 1992, 13-18
- [4] Daniel M., Havránek T., Janoušek V.: Zkušenosti s expertními systémy na PC. — In: Software pro personální počítače, Dům techniky ČSVTS, Ostrava, 1991, 196-206
- [5] Drkošová J., Rozložník M., Strakoš Z.: Analýza citlivosti a odhad chyb při řešení soustav lineárních algebraických rovnic a výpočtu vlastních čísel matic. — IN PRINT
- [6] Drózd J.: Systemy graficke komunikace. — In: MEDSOFT '91, Volume 1, Břeclav, 1991
- [7] Drózd J.: Systém řízení báze dat SEZAM. — In: Sbornik DB-SEM, SUVT, Přerov, 1991
- [8] Eben K.: Diskriminační analýza a příbuzné metody analýzy dat. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecan), ICS CAS, Prague, 1992, 47-52
- [9] Edwards D., Havránek T.: Graphical Modelling. — In: Proceedings of the International Summer School on Computational Aspects of Model Choice, Faculty of Mathematics and Physics (FMP), Charles University (CU), Prague, 1991
- [10] Harmanec D.: A Non-compositional Expert System Based on Dempster-Shafer Theory. — In: Aplikace umělé inteligence – AI '91, Česká společnost pro kybernetiku a informatiku, Prague, 1991, 42-52
- [11] Hájek P.: O Gödelově důkazu existence Boha. — In: Filosofické otázky matematiky a fyziky (Editors: J. Bečvář, E. Fuchs, D. Hrubý, A. Trojáněk), JČMF, Brno, 1995, 5-15
- [12] Hladík I., Nedoma J.: On the Numerical Solution of an Initial Boundary Value Problem for the Viscoplastic Bingham Fluid. — In: Proceedings of the 2nd Conference on Numerical Methods in Geomechanics, IACMAG, Prague, 1992, 141-144
- [13] Jiřina M.: Sensitivity in Mass Service Systems. — In: Modelování a simulace systému, Dům techniky ČSVTS, Ostrava, 1991, 123-130
- [14] Jiřina M.: Programy JED, BUM a KAT pro citlivostní analýzu systému s frontami. — In: Vybrané problémy simulačních modelů, Dům techniky ČSVTS, Ostrava, 1991, 31-35
- [15] Jiřina M.: Problém získávání parametrů simulačního modelu. — In: Vybrané problémy simulačních modelů, MARQ, Ostrava, 1992, (unnumbered) 4 pages
- [16] Klán P., Maršík J.: Nekonenční metoda predikce výstupu dynamických systémů. — In: Proceedings of the Conference "Řízení procesů", Katedra automatizace chemických výroby ChTF, Pardubice, 1994, 205-211

- [17] Kočková S.: Algoritmus pokrývání množin v "Machine Learning". — In: Programy a algoritmy numerické matematiky 6, Mathematical Institute (MI), CAS, Prague, 1992, 45-51
- [18] Kočková S.: Kontextově orientovaná diskretizace numerických atributů. — In: Proceedings of the seminar "Programy a algoritmy numerické matematiky", MI AS CR, Prague, 1994, 102-107
- [19] Kufudaki O., Hořejš J.: State-of-Arts and Trends in Neurocomputing. — In: MOP '92, Volume 2, ČSVTS VC UK, Prague, 1992
- [20] Kůrková V.: Fraktály a přírodní tvary. — In: SYNERGETIKA '92., ÚEF SAV, Košice, 1992, 37-45
- [21] Liška E., Kotas J., Englišová M., Pospíšilová J., Eben K.: Srovnání elektroforetického a fotometrického stanovení HDL a LDL - cholesterolu. — In: Sborník 21. sjezdu klinické biochemie, Československá společnost klinické biochemie, Košice, 1992
- [22] Lukšan L.: Teoretické základy optimalizačních metod. — In: Optimalizácia konstrukčných návrhov v spojení s MKP, Slovenská spoločnosť pre mechaniku pri SAV, Žilina, 1991, 41-101
- [23] Lukšan L.: Numerické metody pro minimalizaci obecně účelové funkce a součtu čtverců. — In: Programy a algoritmy numerické matematiky 6, MI CAS, Prague, 1992, 74-110
- [24] Lukšan L., Vlček J.: Parametrická optimalizace dynamických systémů. — In: Programy a algoritmy numerické matematiky, MI AS CR, Prague, 1994, 128-140
- [25] Maršík J., Nedoma P., Klán P.: Netradiční řízení – Od adaptivních algoritmů k laboratorním experimentům. — In: Quo vadis automatizace, FF CTU, Prague, 1994, 74-79
- [26] Maryška J., Mužák J.: Hybrid-Mixed Model of the Transport of Chemical Substances. — In: Proceedings of the 2nd Summer Conference Numerical Modelling in Continuum Mechanics (Editors: M. Feistauer, R. Rannacher, K. Kozel), Volume 2 (Contributed Papers), CU, Prague, 1995, 181-189
- [27] Nedoma J.: A Nonlinear Analysis of Incompressible Pulsating Flow in the Artery System and Blood Vessels. — In: Proceedings of the Seminar held on the Occasion of the 60th Birthday of Professor Ivo Marek – Numerical Mathematics in Theory and Practice, University of West Bohemia, Plzeň, 1993, 141-169
- [28] Nedoma J.: Numerical Simulation of Geodynamic Processes in 2D and 3D Earth. A New Approach to Mantle-Core Coupling Studies. Theory. — In: Workshop in Global Dynamics of the Solid Earth. — IN PRINT
- [29] Nedoma J.: Analysis of Pulsatile Flow of Visco-Plastic Bingham Fluid Through a Pipe. — In: Proceedings of the 2nd Summer Conference Numerical Modelling in Continuum Mechanics (Editors: M. Feistauer, R. Rannacher, K. Kozel), Volume 2 (Contributed Papers), CU, Prague, 1995, 210-217
- [30] Nekulová M., Šimíčková M., Pecen L., Eben K., Vermousek I., Stratil P., Černocho M., Lang B.: Optimální kombinace sérových nádorových markerů karcinomu prsu a diagnostika progresse . — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecen), ICS CAS, Prague, 1992, 21-27
- [31] Nguyen H.: Approach to the Combination of Occidental and Oriental Medicine in Diagnosis and Treatment. — In: Proceedings of the 3rd Workshop on Uncertainty Processing in Expert System, University of Economics, Prague, 1994, 199-210
- [32] Novák M.: Applications of Time-Series Forecasting by Neural Networks. — In: Nové směry v spracování signálů I, Volume 1, Vojenská Akadémia SNP, Liptovský Mikuláš, 1994, 135-147
- [33] Pecen L.: Deterministické modely a jejich souvislosti s jinými metodami vhodnými pro vyhodnocování dlouhodobého monitorování pacientů. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecen), ICS CAS, Prague, 1992, 53-58

- [34] Pecen L.: Možnosti návrhu matematických modelů v medicíně. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecen), ICS CAS, Prague, 1992, 70-72
- [35] Pecen L., Eben K., Sláma M.: Možnosti predikce vývoje klinického stavu na základě dlouhodobého monitorování markerů. (Abstract). — In: 17. brněnské onkologické dny, Brno, 1993
- [36] Pelikán E., Šmejkalová J.: Modely neuronových sítí pro zpracování biologických dat. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecen), ICS CAS, Prague, 1992, 59-62
- [37] Plášil F., Grof M.: Implementation of OBJIX Operating System on I80386 Microprocessor. — In: Proceedings of CTU Prague Workshop '94, CTU, Prague, 1994, 76-84
- [38] Plášil F., Smolik T.: Frameworks as Hierarchies of Classes. — In: Proceedings of CTU Prague Workshop '94, CTU, Prague, 1994, 143-148
- [39] Rozložník M.: Metody typu konjugovaných gradientov pre riešenie nesymetrických sústav lineárnych rovníc. — In: Moderní matematické metody v inženýrství, JČMF, Ostrava, 1994, 93-109
- [40] Sláma M., Eben K.: Databázové systémy v medicíně. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecen), ICS CAS, Prague, 1992, 63-64
- [41] Strakoš Z.: Lanczos Algorithm, Orthogonal Polynomials and Continued Fractions. — In: Proceedings of the 10th Summer School Software and Algorithms of Numerical Mathematics (Editor: I. Mareš), CU, Prague, 1993, 179-186
- [42] Šimíčková M., Pecen L., Eben K., Nekulová M., Vermousek I., Stratil P., Černoš M., Lang B., Rejthar A., Kudličková Z., Augustinová: Možnosti zpracování biochemických výsledků vyšetření cystické tekutiny prsu ve vztahu k vyšetřením klinickým. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecen), ICS CAS, Prague, 1992, 28-39
- [43] Štuller J.: Inconsistency Conflict Resolution in the Integration of the Databases. — In: Proceedings of DATASEM '95, CS-COMPEX, Brno, 1995, 47-52
- [44] Tůma M.: Paralelní algoritmy v optimalizaci. — In: Algoritmy '91, JSMF, Štrbské pleso, 1991, 226-231
- [45] Tůma M.: Vliv počítačové architektury na numerické výpočty ve statistice. — In: ROBUST' 92, JČMF, Prague, 1992, 167-184
- [46] Tůma M.: An Implicit Gauss Algorithm for Sparse Unsymmetric Linear Systems. — In: Proceedings of the 10th Summer School Software and Algorithms of Numerical Mathematics, University of West Bohemia, Cheb, 1993, 179-186
- [47] Závorková Z.: Automatizovaná počítačová cytologická vyšetření. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecen), ICS CAS, Prague, 1992, 73
- [48] Zvárová J.: Lékařská informatika a onkologie z pohledu světového kongresu o lékařské informatice MEDINFO '92. — In: Proceedings of the seminar "Nové metody analýzy výsledků imunochemických a biochemických vyšetření v onkologii" (Editor: L. Pecen), ICS CAS, Prague, 1992, 67-69

6 Abstracts in proceedings of national conferences

- [1] Andrej L.: Chaotické neuronové sítě. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [2] Beran H.: Predikce chování říčního systému neuronovými sítěmi. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [3] Beran H.: Trendy a perspektivy predikce neuronovými sítěmi. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [4] Bítzan P.: Speciální modely optických neuronových sítí. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [5] Hlaváčková K., Neruda R.: Učení v neuronových sítích typu RBF. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, Prague, 1992, (unnumbered)
- [6] Hořejš J.: Modelování biologických informačních mechanismů. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [7] Maryška J.: Optimization in the Construction of the Axis-symmetric Glass-mould. (Extended abstract). — In: APLIMA '94, Technical University, Liberec, 1994, 8-9
- [8] Mužák J.: Solving Elliptic Problems by the FEM (Algorithmizing). — In: APLIMA '94, Technical University, Liberec, 1994, 15-16
- [9] Nekulová M., Šimíčková M., Šmérková H., Pecen L., Eben K., Sakalová J., Kudličková Z.: Nádorové markery a reaktanty akutní fáze u nemocných sledovaných pro karcinom prsu. (Abstract). — In: 17. brněnské onkologické dny, Brno, 1993 (unnumbered)
- [10] Novák M.: Modely neuronů s uvažováním vnitřních informačních mechanismů. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, Prague, 1992, (unnumbered)
- [11] Pecen L.: Vyhodnocování onkologických časových řad alternativními přístupy k neuronovým sítím. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [12] Pelikán E.: Predikce časových řad pomocí dekorelovaných neuronových sítí. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [13] Rozložník M.: Biconjugate Gradient-Type Methods for Solving the Nonsymmetric Systems of Linear Equations. (Extended Abstract). — In: APLIMA '94, Technical University, Liberec, 1994, 27-28
- [14] Řízek S.: Řízení systému pomocí neuronových sítí. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)

- [15] Šebesta V., Novák M.: Tolerance parametrů umělých neuronových sítí. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [16] Šimíčková M., Pecan L., Eben K., Nekulová M., Černocho M., Lang B., Rejthar A., Sakalová J., Vojtová I., Kudličková Z.: Složení cystické tekutiny prsu jako možný ukazatel míry rizika vzniku karcinomu. (Abstract) — In: 17. brněnské onkologické dny, Brno, 1993 (unnumbered)
- [17] Šíma J.: Časová složitost učení vícevrstevných neuronových sítí. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [18] Šíma J.: Neuronové diagnostické expertní systémy. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)
- [19] Štuller J.: Ordered Modified Gram-Schmidt Orthogonalization Revised. — In: APLIMA '94, Technical University, Liberec, 1994, 12
- [20] Tůma M.: An Explicit Preconditioner for the Conjugate Gradient Algorithm. — In: APLIMA '94, Technical University, Liberec, 1994, 6-7
- [21] Vítková G.: Generalizační schopnosti neuronových sítí. — In: Symposium o umělých neuronových sítích, jejich filozofii a možnostech aplikací v ekologii a vodohospodářství, ČSVTS VUV TGM, ICS CAS, Prague, 1992, (unnumbered)

7 Books (or their parts)

- [1] Albrecht V., Hömig J., Paluš M., David I.: Developing Tools for Pharmacoo-EEG: the Spectral Dynamics Approach. — In: *Mathematical Approaches to Brain Functioning Diagnostics* (Editors: I. Dvořák, A. V. Holden), Manchester University Press, Manchester, 1991, 271-282
- [2] Bartošek M., Staudek J., Wiedermann J. (Editors): *SOFSEM '95 – Theory and Practice of Informatics*, Springer-Verlag, Berlin, 1995, 498 pages
- [3] Bommel van J. H., Zvárová J. (Editors): *Knowledge, Information and Medical Education*, North Holland, Amsterdam, 1991, 460 pages
- [4] Bommel van J. H., Zvárová J. (Editors): *Education and Research in Medical Informatics. (Abstracts)*, EuroMISE Center, Prague, 1994, 45 pages
- [5] Casavant T., Tvrđík P., Plášil F.: *Parallel Computers: Theory and Practice*, IEEE Computer Society Press, Washington, 1996, 421 pages
- [6] Dvořák I., Paluš M., David I.: Time and Space Structure of the Determinancy of Brain Electrical Phenomena. — In: *Mathematical Approaches to Brain Functioning Diagnostics* (Editors: I. Dvořák, A. V. Holden), Manchester University Press, Manchester, 1991, 353-368
- [7] Fiedler M.: A Geometric Approach to the Laplacian Matrix of a Graph. — In: *Combinatorial and Graph-Theoretical Problems in Linear Algebra* (Editors: R. A. Brualdi, S. Friedland, V. Klee), Springer-Verlag, New York, 1993, 73-98
- [8] Havránek T.: *Statistika pro biologické a lékařské vědy*, Academia, Prague, 1993, 478 pages
- [9] Hájek P., Havránek T., Jiroušek R.: *Uncertain Information Processing in Expert Systems*, CRC Press, Boca Raton, 1992, 285 pages
- [10] Hájek P., Pudlák P.: *Metamathematics of First-Order Arithmetic – Perspectives in Mathematical Logic*, Springer-Verlag, Berlin, 1993, 460 pages
- [11] Hájek P.: Der Mathematiker and die Frage der Existenz Gottes. — In: *Wahrheit und Beweisbarkeit – Kurt Gödels Leben und Werk* (Editors: W. Schimanowich, B. Buldt, E. Köhler, P. Weibel) — IN PRINT
- [12] Hořejš J.: *Umělá inteligence – Chapter 9.* (Editor: V. Mařík), Grada, Prague, 1992
- [13] Húsek D.: *Novell NetWare 4.01. Nové prvky*, CompAlmanach, Prague, 1994, electronic publication.
- [14] Kůrková V.: Kolmogorov's Theorem. — In: *The Handbook of Brain Theory and Neural Networks* (Editor: M. A. Arbib), MIT Press, Cambridge, 1995, 501-502
- [15] Nedoma J.: Finite Element Analysis in Nuclear Safety. — In: *The Mathematics of Finite Elements and Applications – Highlights 1993* (Editor: J. R. Whiteman), John Wiley & Sons, Chichester, 1994, 385
- [16] Nedoma J.: FEM Analysis of Artificial Substitutes of Human Joints and Their Optimal Design. — In: *The Mathematics of Finite Elements and Applications. – Highlights 1993* (Editor: J. R. Whiteman), John Wiley & Sons, Chichester, 1994, 386
- [17] Novák M.: *Neuronové sítě a neuropočítače*, SENZO, Prague, 1992, 190 pages
- [18] Novák M., Faber J., Kufudaki O.: *Neuronové sítě a informační systémy živých organismů*, Grada, Prague, 1992, 265 pages

- [19] Novák M., Pelikán E., Beran H.: Time-Series Prediction By Artificial Neural Networks – Electric Power Consumption. — In: *Frontier Decision Support Concepts. (Help Desk, Learning, Fuzzy Diagnoses, Quality Evaluation, Prediction, Prediction, Evolution)*, (Editors: V. L. Plantamura, B. Souček, G. Visaggio), John Wiley & Sons, New York, 1994, 221-239
- [20] Paluš M., Dvořák I., David I.: Remarks on Spatial and Temporal Dynamics of EEG. — In: *Mathematical Approaches to Brain Functioning Diagnostics* (Editors: I. Dvořák, A. V. Holden), Manchester University Press, Manchester, 1991, 369-386
- [21] Paluš M.: Identifying and Quantifying Chaos by Using Information-Theoretic Functionals. — In: *Time Series Prediction: Forecasting the Future and Understanding the Past* (Editors: A. S. Weigend, N. A. Gershenfeld), Addison-Wesley, Reading, 1993, 378-413
- [22] Paluš M.: Testing for Nonlinearity in the EEG. — In: *Nonlinear Dynamical Analysis of th EEG* (Editors: B. H. Jansen, M. E. Brandt), World Scientific, Singapore, 1993, 100-115
- [23] Pelikán E., Novák M. (Editors): *Theoretical Aspects of Neurocomputing – Selected Papers*, World Scientific, Singapore, 1991, 289 pages
- [24] Plášil F., Staudek J.: *Operační systémy*, SNTL, Prague, 1992, 439 pages
- [25] Richards B., Hájek P., Zvárová J., Jiroušek R., Esteva J., Lubicz M.: MUM - Managing Uncertainty in Medicine. — In: *Health in the New Communications Age – Health Care Telematics for the 21st Century* (Editors: M. F. Laires, M. J. Ladeira, J. P. Christensen), IOS Press, Amsterdam, 1995, 247-250
- [26] Rohn J.: Linear Interval Equations: Computing Enclosures with Bounded Relative Overestimation is NP-Hard. — In: *Applications of Interval Computations* (Editors: R. B. Kearfott, V. Kreinovich) — IN PRINT, Kluwer, Boston
- [27] Wiedermann J.: *Vyhledávání*, SNTL, Prague, 1991, 142 pages
- [28] Wiedermann J., Hájek P. (Editors): *Mathematical Foundations of Computer Science 1995 – Proceedings of the 20th International Symposium*, Springer, Berlin, 1995, 588 pages
- [29] Zvárová J.: Medical Informatics and Medical Curriculum at the Medical Faculty of Charles University in Prague. — In: *Knowledge, Information and Medical Education* (Editors: J. H. van Bommel, J. Zvárová), North Holland, Amsterdam, 1991, 17-25
- [30] Zvárová J.: Medical Informatics Education at Charles University under the Tempus-Phare Joint European Project. — In: *Education and Training in Health Informatics in Europe. State of the Art - Guidelines - Applications* (Editors: A. Hasman, A. Albert, P. Wainwright, R. Klar, M. Sosa), IOS Press, Amsterdam, 1995, 211-215
- [31] Zvárová J.: Medical Informatics, Statistics and Epidemiology Education: In the Framework of the Tempus-Phare Joint European Project. — In: *Yearbook '95 of Medical Informatics – The Computer-based Patient Record*, Schattauer, Stuttgart, 1995, 121-124
- [32] Zvárová J., Malá I. (Editors): *EuroMISE 95: Information, Health and Education. (Abstracts)*, EuroMISE Center, Prague, 1995, 90 pages

8 Textbooks

- [1] Hamata V., Měříčka J., Voženílek P.: Elektrické stroje (Vysokoškolská učebnice), CTU, Prague, 1993, 258 pages
- [2] Hájek P., Švejdar V.: Matematická logika (Studijní materiál), FMP CU, Prague, 1994, 62 pages
- [3] Holeňa M.: Základy teorie fuzzy množin (Studijní text pro posluchače 5. ročníku FJFI), ICS AS CR, Prague, 1994, 48 pages
- [4] Snášel V., Sklenář V., Húsek D.: Vyhledávání informací v textech algoritmy a datové struktury (Tutorial pro konferenci Datasem '95), ICS AS CR, Prague, 1995, 101 pages
- [5] Štuller J.: Fonctions de la variable complexe. — Cours a l'usage des étudiants de Elec 3 - Ener 3 - Mec 3 (Fascicules 1-3), L'École Nationale d'Ingénieurs de Monastir (ENIM), Tunisia, 1991, 107 pages
- [6] Štuller J.: Transformations intégrales. — Cours a l'usage des étudiants de Elec 3 - Ener 3 - Mec 3 (Fascicules 1-2), L'École Nationale d'Ingénieurs de Monastir (ENIM), Tunisia, 1992, 32 pages
- [7] Štuller J.: Distributions. — Cours a l'usage des étudiants de Elec 3 - Ener 3 - Mec 3 (Fascicules 1-4), L'École Nationale d'Ingénieurs de Monastir (ENIM), Tunisia, 1992, 70 pages
- [8] Štuller J.: Mathematiques. : Exercices a l'usage des étudiants de MI 2, L'École Nationale d'Ingénieurs de Monastir (ENIM), Tunisia, Monastir, 1993, 30 pages
- [9] Zvárová J., Dostál C., Jirků P., Kasal P.: Lékařská informatika IV. — Expertní a komunikační systémy v medicíně, Karolinum, Prague, 1992, 123 pages

9 Dissertations

- [1] Daniel M.: Dempsterova pologrupa a práce s nejistotou v pravidlově orientovaných expertních systémech, ICS AS CR, Prague, 1993, 123 pages
- [2] Hakl F.: Some Results on Properties of Threelayers Neural Nets and The Class of P-Matrices, ICS AS CR, Prague, 1993, 134 pages
- [3] Hlaváčková K.: RBF sítě a samoorganizace Kohonenova typu, ICS AS CR, Prague, 1992, 76 pages
- [4] Kuncová I.: Řízení komunikace v počítačových sítích: snižování chybovosti komunikačních protokolů, ICS CAS, Prague, 1991, 164 pages
- [5] Mantič V.: Počítačová realizácia metódy hraničných prvkov s viacúrovňovým subštruktúrovaním, TU Strojnícka fakulta, Košice, 1992, 234 pages
- [6] Nedoma J.: Mathematical Modelling in Biomechanics: Bone and Vascular-Implant Systems (Habilitation), ICS AS CR, Prague, 1993, 220 pages
- [7] Paluš M.: Informačné a entropické vlastnosti chaotických systémov a elektroencefalogramu, ICS CAS, Prague, 1992, 45 pages
- [8] Pecen L.: Metody deterministického chaosu na analýzu signálů, CU, Prague, 1992, 161 pages (+ supplement : 36 pages)
- [9] Pudlák P.: On the Length of Proof of Consistency, ICS AS CR, Prague, 1994, 168 pages
- [10] Šíma J.: Neuronové expertní systémy, ICS AS CR, Praha, 1993, 91 pages
- [11] Švanda J.: Elektronická implementace modelu neuronové sítě, ICS CAS, Prague, 1992, 95 pages

10 Reports

- [1] Adamec J., Gróf M., Kleindienst J., Plášil F., Tůma P.: Supporting Interoperability in CORBA via Object Services, Charles University, Prague, 1995 (TR 114), 46 pages
- [2] Andrej L.: Biological Neural Networks and Stability of Memory ICIS, ICS CAS, Prague, 1991 (V-486), 28 pages
- [3] Andrej L.: Entropy Production - A New Harmony Function for Hopfield - Like Networks ICIS, ICS CAS, Prague, 1991 (V-502), 4 pages
- [4] Andrej L., Kufudaki O.: Neural Networks - Nonlinear Systems with Potentially Complex Behavior, ICS CAS, Prague, 1993 (V-557), 8 pages
- [5] Andrej L.: Informace, entropie a složitost. (Information, Entropy and Complexity), Volume 1, ICS AS CR, Prague, 1995 (V-657), 10 pages
- [6] Bendová K., Sochorová A.: Uživatelský manuál programů ASSOC a IMPL metody GUHA, ICS AS CR, Prague, 1994 (V-572), 26 pages
- [7] Benzi M., Tůma M.: A Comparison of Some Preconditioning Techniques for General Sparse Matrices, ICS AS CR, Prague, 1995 (V-622), 13 pages
- [8] Benzi M., Meyer C., Tůma M.: A Sparse Approximate Inverse Preconditioner For The Conjugate Gradient Method, ICS AS CR, Prague, 1995 (V-613), 14 pages
- [9] Benzi M., Tůma M.: A Sparse Approximate Inverse Preconditioner for Nonsymmetric Linear Systems, ICS AS CR, Prague, 1995 (V-653), 36 pages
- [10] Božovský P., Húsek D.: Information Capabilities Analysis of Recurrent Neural Network Creating Energy Function Constructively, ICS AS CR, Prague, 1995 (V-627), 5 pages
- [11] Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory, ICS AS CR, Prague, 1995 (V-629), 15 pages
- [12] Daniel M.: Algebraic Approach to Dempster-Shafer Theory (Extended Abstract). — In: Building Intelligent Systems (Editor: P. Jirků), LISP, Department of Information and Knowledge Engineering, Prague, 1995 (TR LISP-9508), 4-6
- [13] Denksteinová M., Nývltová L., Štuller J., Pešek D.: Overview List of Technical Reports and Dissertations – Completed at the Occasion of 20th Anniversary of Institute Foundation, ICS AS CR, Prague, 1995 (V-639), 87 pages
- [14] Drkošová J., Greenbaum A., Rozložník M., Strakoš Z.: Numerical Stability of GMRES, ICS AS CR, Prague, 1994 (V-579), 26 pages
- [15] Fabián Z.: Towards Unification of Method of Statistical Estimation, ICS AS CR, Prague, 1991 (V-519)
- [16] Fabián Z.: Metric Random Variable, ICS AS CR, Prague, 1993 (V-552), 18 pages
- [17] Fabián Z.: Towards Systematization of Continuous Regular Probability Distributions, ICS AS CR, Prague, 1993 (V-553), 16 pages
- [18] Fabián Z.: Parametric Point Estimation on R_+ , ICS AS CR, Prague, 1993 (V-554), 10 pages
- [19] Fabián Z.: Distance of Statistical Individuals, ICS AS CR, Prague, 1993 (V-562), 25 pages
- [20] Fabián Z.: Systematics of Continuous Probability Distributions Based on Properties of Corresponding Metric Functions, ICS AS CR, Prague, 1993 (V-567), 25 pages

- [21] Fabián Z.: Introducing Geometrical Probability Theory, ICS AS CR, Prague, 1994 (V-577), 29 pages
- [22] Fabián Z.: Geometric Definition of Continuous Probability Space and Some its Consequences, ICS AS CR, Prague, 1994 (V-581), 10 pages
- [23] Fabián Z.: Systematics of Continuous Unimodal Probability Distributions Based on Properties of Coresponding Metric Functions (Final Version), ICS AS CR, Prague, 1994 (V-582), 22 pages
- [24] Fabián Z.: Metric Random Variable, Metric Moments and Metric Moment Estimates, ICS AS CR, Prague, 1994 (V-583), 37 pages
- [25] Fabián Z.: On the Relation between Gnostical and Probability Theories, ICS AS CR, Prague, 1994 (V-598), 19 pages
- [26] Fabián Z.: Systematics of Continuous Probability Distributions, ICS AS CR, Prague, 1995 (V-623), 19 pages
- [27] Fabián Z.: On the Relation Between Gnostical and Probability Theories, ICS AS CR, Prague, 1995 (V-624), 14 pages
- [28] Fabián Z.: Information and Entropy of Continuous Random Variables, ICS AS CR, Prague, 1995 (V-633), 13 pages
- [29] Fabián Z.: Fisher Distance of Probability Measures, ICS AS CR, Prague, 1995 (V-638), 15 pages
- [30] Fabián Z.: Geometric Moments and Geometric Moment Estimates, ICS AS CR, Prague, 1995 (V-656), 34 pages
- [31] Frolov A., Řízek S.: Control by Neural Networks, ICS CAS, Prague, 1992 (V-539), 19 pages
- [32] Frolov A., Húsek D.: On the Information Capacity of Hopfield Network, ICS AS CR, Prague, 1994 (V-607), 8 pages
- [33] Golub G., Strakoš Z.: Estimates in Quadratic Formulas, Manuscript SCCM-93-08, Stanford University, Stanford, 1993, 35 pages
- [34] Golub G., Strakoš Z.: Estimates in Quadratic Formulas, ICS AS CR, Prague, 1993 (V-560), 36 pages
- [35] Greenbaum A., Strakoš Z.: Matrices that Generate the Some Krylov Residual Spaces. IMA Preprint Series No 983, IMA, Minnesota, 1992 (Technical Report), 26 pages
- [36] Greenbaum A., Pták V., Strakoš Z.: Any Nonincreasing Convergence Curve is Possible for GMRES, ICS AS CR, Prague, 1994 (V-594), 9 pages
- [37] Harmancová D.: PC-GUHA uživatelská příručka, ICS AS CR, Prague, 1994 (V-616), 16 pages
- [38] Harmancová D.: PC-GUHA Brief Manual, ICS AS CR, Prague, 1994 (V-617), 18 pages
- [39] Hájek P., Harmancová D.: Medical Fuzzy Expert Systems and Reasoning about Beliefs, ICS AS CR, Prague, 1994 (V-632), 8 pages
- [40] Hájek P., Zvárová J., Esteva F.: Managing Uncertainty in Medicine - State of Art Report, ICS AS CR, Prague, 1994 (TR - grant MUM)
- [41] Hájek P.: Possibilistic Logic as Interpretability Logic, ICS AS CR, Prague, 1995 (V-630), 9 pages
- [42] Hájek P., Nguyen H.: Möbius Transform for CADIAG-2, ICS AS CR, Prague, 1995 (V-650), 19 pages
- [43] Hájková M., Janoušek V.: EQUANT PC verze 1.0. Manuál diagnostického expertního systému, ICS AS CR, Prague, 1991 (V-487), 15 pages
- [44] Hlaváčková K.: Some Estimates of the Approximation Error of Continuous Functions by RBF and KBF networks, ICS AS CR, Prague, 1994 (V-602), 7 pages

- [45] Hlaváčková K., Verleysen M.: Feed-Forward Neural Networks and Splines for Approximation of Functions, ICS AS CR, Prague, 1995 (V-651), 14 pages
- [46] Holeňa M.: ESKA - Informationssystem für erklärende Synonymik kommunikat. Ausdrücke – Interne System und Programmdokumentation, LDV IDS, Mannheim, 1992 (Technical Report - unnumbered, approximately 400 pages)
- [47] Holeňa M.: Theoretical Principles of Uncertainty Processing in Expert Systems, Deliverable IDMK-7, Volume 2, Cadlab, Paderborn, 1993 (TR JCF), 57 pages
- [48] Holeňa M., Kruschinski R.: Specification of HyKL 1.0. Description Language for Hybrid Knowledge Representation and Management, Cadlab, Paderborn, 1994 (TR JCF), 64 pages
- [49] Holeňa M.: Uncertainty Aspects of Artificial Neural Networks, Deliverable IDMK, Cadlab, Paderborn, 1995 (TR JCF), 49 pages
- [50] Hrach K.: Nonparametric Methods in Survival Analysis, EuroMise, Prague, 1995 (EuroMISE Course - Final Thesis), 30 pages
- [51] Húsek D., Lúžný J.: Dvousměrná asociativní pamět, ICS CAS, Prague, 1991 (V-494), 21 pages
- [52] Húsek D., Novák M., Kettnerová P., Duffková P., Koukalová J.: Vědecký informační systém SIS – Uživatelská příručka, ICS CAS, Prague, 1991 (V-514), 20 pages
- [53] Húsek D., Frolov A.: Evaluation of the Informational Capacity of Hopfield Network by Monte Carlo Simulation, ICS AS CR, Prague, 1994 (V-606), 19 pages
- [54] Húsek D., Pokorný J., Kopecký M.: Metody vyhledávání v textových databázích, ICS AS CR, Prague, 1994 (V-610), 25 pages
- [55] Jiřina M., Švanda J.: Neuronové sítě s omezeným propojením, ICS CAS, Prague, 1991 (V-510), 22 pages
- [56] Jongeneel C.: Prediction the Consumption of a Power Plant, ICS AS CR, Prague, 1992 (V-530), 17 pages
- [57] Jongeneel C.: Multi-Algorithm ANZA User Interface – User’s and Maintenance Guide, ICS AS CR, Prague, 1992 (V-531), 22 pages
- [58] Kainen P., Kůrková V.: Affinely Recursive Functions and Neural Networks, ICS AS CR, Prague, 1993 (V-576), 6 pages
- [59] Kainen P., Kůrková V., Kreinovich V., Sirisengtaksin O.: Uniqueness of Network Parametrizations and Faster Learning, ICS AS CR, Prague, 1994 (V-575), 8 pages
- [60] Kestřánek Z.: Numerical Analysis of the Contact Problem – Comparison of Methods for Finding the Approximate Solution, ICS AS CR, Prague, 1995 (V-648), 57 pages
- [61] Kliendienst J., Plášil F., Tůma P.: Lessons Learned from Implementing Persistence Service, Charles University, Prague, 1995 (Technical Report No. 117), 28 pages
- [62] Kočková S., Brůha I.: CN4 – An Extension of CN2 Covering Algorithm, ICS AS CR, Prague, 1993 (V-549), 13 pages
- [63] Kočková S.: Decision Support Systems, EuroMise, Prague, 1995 (EuroMISE Course - Final Thesis), 41 pages
- [64] Kramosil I.: Uncertainty Processing under a Nonstandard Interpretation of Probability Values, ÚTIA AV ČSR, Prague, 1991 (V-1707), 46 pages

- [65] Kufudaki O., Žák P., Harmancová D., Hájek P., Štuller J., Prokop J., Javorský S., Hrycej D.: Zpráva o výsledcích výzkumu pro Centrum klastrové medicíny za rok 1993, ICS AS CR, Prague, 1994 (V-573), 44 pages
- [66] Kůrková V., Kainen P.: Semigroups of Function Preserving Weight Transformations, ICS CAS, Prague, 1992 (V-538), 14 pages
- [67] Kůrková V., Hecht-Nielsen R.: Quasiorthogonal Sets, University of California, San Diego, 1992 (TR INC-9204), 9 pages
- [68] Kůrková V.: Approximation of Function by Neural Networks with Local and Non-Local Units, ICS AS CR, Prague, 1994 (V-585), 9 pages
- [69] Kůrková V.: Approximation of Functions by Perceptron Networks with Bounded Number of Hidden Units, ICS AS CR, Prague, 1994 (V-600), 8 pages
- [70] Kůrková V., Kainen P., Kreinovich V.: Estimates of the Number of Hidden Units and Variation with Respect to Half-Spaces, ICS AS CR, Prague, 1995 (V-645), 12 pages
- [71] Lukšan L.: Computational Experience with Improved Conjugate Gradient Methods for Unconstrained Minimization, ICS AS CR, Prague, 1991 (V-488), 15 pages
- [72] Lukšan L.: A Note on Comparison of Statistical Software for Nonlinear Regression, ICS AS CR, Prague, 1991 (V-489), 5 pages
- [73] Lukšan L.: On Variationally Derived Scaling and Preconvex Variable Metric Updates, ICS AS CR, Prague, 1991 (V-496), 11 pages
- [74] Lukšan L., Šiška M., Tůma M.: Interactive System for Universal Functional Optimization UFO – Short description, ICS CAS, Prague, 1991 (V-498), 15 pages
- [75] Lukšan L.: Inexact Trust Region Method for Large Sparse Nonlinear Least Squares, ICS CAS, Prague, 1991 (V-501), 26 pages
- [76] Lukšan L.: Efficient Trust Region Method for Nonlinear Least Squares, ICS CAS, Prague, 1991 (V-503), 22 pages
- [77] Lukšan L.: Teoretické základy optimalizačních metod, ICS CAS, Prague, 1991 (V-521), 67 pages
- [78] Lukšan L., Šiška M., Tůma M.: Interactive System for Universal Functional Optimization (UFO) - version 1991, ICS CAS, Prague, 1992 (V-529), 81 pages
- [79] Lukšan L.: Computational Experience with Known Variable Metric Updates, ICS CAS, Prague, 1992 (V-534), 19 pages
- [80] Lukšan L., Šiška M., Tůma M., Ramešová N.: Interactive System for Universal Functional Optimization (UFO) - version 1992, ICS AS CR, Prague, 1993 (V-545), 87 pages
- [81] Lukšan L.: Inexact Trust Region Method for Large Sparse Systems of Nonlinear Equations, ICS AS CR, Prague, 1993 (V-547), 33 pages
- [82] Lukšan L.: Combined Trust Region Methods for Nonlinear Least Squares, ICS AS CR, Prague, 1993 (V-555), 21 pages
- [83] Lukšan L.: Hybrid Methods for Large Sparse Nonlinear Least Squares, ICS AS CR, Prague, 1993 (V-561), 23 pages
- [84] Lukšan L., Tůma M., Šiška M., Ramešová N.: Interactive System for Universal Functional Optimization (UFO) – Version 1993, ICS AS CR, Prague, 1994 (V-570), 101 pages
- [85] Lukšan L., Vlček J.: Optimization of Dynamical Systems, ICS AS CR, Prague, 1994 (V-584), 18 pages

- [86] Lukšan L.: Numerické metody pro nepodmíněnou optimalizaci (Učební text), ICS AV CR, Prague, 1994 (V-590), 68 pages
- [87] Lukšan L., Tůma M., Šiška M., Vlček J., Ramešová N.: Interactive System Universal Functional Optimization (UFO) – Version 1994, ICS AS CR, Prague, 1994 (V-599), 111 pages
- [88] Lukšan L., Vlček J.: Simple Scaling for Variable Metric Updates, ICS AS CR, Prague, 1994 (V-611), 5 pages
- [89] Lukšan L.: Numerické optimalizační metody pro úlohy bez omezujících podmínek, ICS AS CR, Prague, 1995 (V-640), 129 pages
- [90] Lukšan L., Rozložník M.: Globally Convergent Methods for Large Sparse Systems of Nonlinear Equations, ICS AS CR, Prague, 1995 (V-649), 21 pages
- [91] Lukšan L., Vlček J.: A Bundle-Newton Method for Nonsmooth Unconstrained Minimization, ICS AS CR, Prague, 1995 (V-654), 15 pages
- [92] Lukšan L., Tůma M., Šiška M., Vlček J., Ramešová N.: Interactive System Universal Functional Optimization (UFO) – Version 1995, ICS AS CR, Prague, 1995 (V-662), 117 pages
- [93] Lukšan L., Vlček J.: Truncated Newton Methods for Large Sparse Equality Constrained Nonlinear Programming Problems, ICS AS CR, Prague (V-652), IN PRINT
- [94] Maryška J., Rozložník M., Tůma M.: Mixed-Hybrid Finite Element Approximation of the Potential Fluid Flow Problem, ICS AS CR, Prague, 1994 (V-605), 11 pages
- [95] Maryška J.: Approximation of the Mixed-Hybrid Formulation of the Porous Media Flow Problem, ICS AS CR, Prague, 1994 (V-609), 11 pages
- [96] Maryška J., Rozložník M., Tůma M.: The Potential Fluid Flow Problem and the Convergence Rate of the Minimal Residual Method, ICS AS CR, Prague, 1995 (V-634), 19 pages
- [97] Nedoma J.: A Nonlinear Analysis of Pulsatile Flow in Arteries and Blood Vessels, ICS CAS, Prague, 1991 (V-508), 29 pages
- [98] Nedoma J.: Biomechanics of Static and Dynamic Joints and of Human Motion – Part I-II, ICS CAS, Prague, 1991 (V-507), 29 pages
- [99] Nedoma J.: Static Stress-Strain Analysis of Human Joints and Their Artificial Substitutes, ICS CAS, Prague, 1991 (V-516), 17 pages
- [100] Nedoma J.: Simulation of the Biomechanical Function of Human Joints and Optimal Design of Their Artificial Substitutes, ICS CAS, Prague, 1991 (V-517), 25 pages
- [101] Nedoma J.: Geodynamic Processes in the Volcaically Active Regions and the Stress-Strain Monitoring of Such Regions, ICS CAS, Prague, 1991 (V-515), 23 pages
- [102] Nedoma J.: A Nonlinear Analysis of Incompressible Pulsating Flow in the Artery System and Blood Vessels, ICS CAS, Prague, 1993, (V-546), 24 pages
- [103] Nedoma J.: FEM Analysis of Artificial Substitutes of Human Joints and their Optimal Design, ICS CAS, Prague, 1993 (V-551), 23 pages
- [104] Nedoma J.: Finite Element Analysis in Nuclear Safety, ICS AS CRR, Prague, 1993, (V-550), 90 pages
- [105] Nedoma J.: On a Generalized Thermo-Magneto-Hydrodynamic Problem – A New Approach to Mantle-Core Coupling Studies, ICS AS CR, Prague, 1994, (V-578), 24 pages
- [106] Nedoma J.: Numerical Modelling of Tectonic Evolution of Collision Zones, ICS AS CR, Prague, 1994 (V-596), 32 pages

- [107] Neruda R., Hlaváčková K.: On the Convergence of Generalized Kohonen's Maps, ICS AS CR, Prague, 1992 (V-544), 14 pages
- [108] Novák M.: Some Considerations on the Tolerances and Sensitivities of Artificial Neural Networks, ICS CAS, Prague, 1991 (V-495), 39 pages
- [109] Novák M., Pelikán E.: Predikce potřebných příkonů energetické sítě pomocí neuronových sítí, ICS CAS, Prague, 1991 (V-509), 15 pages
- [110] Novák M., Faber J.: Modeling of Some Epileptic Phenomena by Layered Artificial Neural Networks, ICS CAS, Prague, 1991 (V-513), 12 pages
- [111] Novák M.: The Task of High Level Decision in Second Level Triggering, ICS CAS, Prague, 1992 (V-535), unnumbered
- [112] Novák M.: Modely neuronů s uvažováním vnitřních informačních mechanismů, ICS CAS, Prague, 1992 (V-541), unnumbered
- [113] Novák M.: Koncepce systémů s mimořádnou spolehlivostí, ICS CAS, Prague, 1992 (V-543), unnumbered
- [114] Novák M., Kufudaki O., Faber J.: Neurofyziologické přístupy k umělým neuronovým sítím, ICS CAS, Prague, 1992 (V-532), 105 pages
- [115] Novák M., Šebesta V.: Klestění neuronových sítí, ICS CAS, Prague, 1993 (V-542), 17 pages
- [116] Novák M.: Souhrnná zpráva o průběhu prací na grantu č. 101/93/0430 – Teorie a metody návrhu systémů se zvýšenou spolehlivostí v r. 1993, ICS AS CR, Prague, 1994 (V-574), 15 pages
- [117] Novák M.: Teorie systémů se zvýšenou odolností vůči náhlým změnám (grant č. 101/93/0430 Grantové agentury ČR), ICS AS CR, Prague, 1994 (V-589), 8 pages
- [118] Novák M.: Základy teorie provozní spolehlivosti a opravitelnosti systémů, ICS AS CR, Prague, 1994 (V-569), 28 pages
- [119] Novák M.: Souhrnná zpráva o průběhu a výsledcích řešení grantu Grantové agentury ČR č. 101/93/0430 – Teorie a metody návrhu systémů se zvýšenou spolehlivostí za r. 1994, ICS AS CR, Prague, 1994 (V-603), 15 pages
- [120] Novák M.: Optimální ukládání rozsáhlých souborů dat, ICS AS CR, Prague, 1994 (V-614), 6 pages
- [121] Novák M.: Aspekty neurčitosti při řešení provozní spolehlivosti systémů, ICS AS CR, Prague, 1995 (V-660), 10 pages
- [122] Novák M., Denksteinová M.: Literární zdroje informací o neuronových sítích, ICS AS CR, Prague, 1995 (V-663), unnumbered
- [123] Novák M., Kufudaki O., Šimek M., Růžička P., Hrycej D.: Rozvaha o možnostech ekonomického přínosu aplikací nových informačních technologií, ICS AS CR, Prague, 1995 (V-637), 6 pages
- [124] Novák M.: Meze životnosti technických soustav (některé ekonomické aspekty zavedení komplexní diagnostiky leteckých proudových motorů používaných v armádě České republiky), ICS AS CR, Prague, 1995 (V-612), 6 pages
- [125] Novák M., Pecan L.: Úvahy o uplatnění metod komplexní predikční diagnostiky v medicíně, ICS AS CR, Prague, 1995 (V-664), 19 pages
- [126] Novák M.: Vizuální informační neuronový systém, ICS AS CR, Prague (V-587), IN PRINT
- [127] Pecan L., Eben K., Černocho M., Lang B., Nekulová M., Vermousek I., Šimíčková M., Sláma M., Pelikán E., Beran H.: Metoda půlroční predikce progresu u dlouhodobě sledovaných pacientek s operabilním i inoperabilním karcinomem prsu, MZ, Prague, 1993 (Technical Report No. 192)

- [128] Pelikán E., Eben K.: Modulární neuronové sítě v energetice, ICS AS CR, Prague (V-615), IN PRINT
- [129] Pfeffer D.: Biological Signal Processing and System Identification, ICS AS CR, Prague, 1995 (V-635), 17 pages
- [130] Plášil F., Gróf M.: An Overcoming on Inheritance Anomaly, Institut National des Télécommunications, Evry, 1995 (Rapport interne de recherche 95-05-02), 12 pages
- [131] Plášil F., Tůma P.: Memory Management in Spring, Institut National des Télécommunications, Evry, 1995 (Rapport interne de recherche 95-05-03), 12 pages
- [132] Poupě J., Medellin H.: Sistema Experto Para la Administracion del Sistema Nacional de Institutos Technologicos, ICS CAS, Prague, 1991 (V-499), 18 pages
- [133] Pták V.: Krylov Sequences and Orthogonal Polynomials, ICS AS CR, Prague, 1995 (V-659), 10 pages
- [134] Pudlák P., Žák S.: Space Complexity of Computations, ICS AS CR, Prague, 1994 (V-593), 30 pages
- [135] Rohn J.: An Algorithm for Checking Stability of Symmetric Interval Matrices, ICS AS CR, Prague, 1994 (V-595), 8 pages
- [136] Rex G., Rohn J.: A Note on Checking Regularity of Interval Matrices, ICS AS CR, Prague, 1994 (V-604), 4 pages
- [137] Rohn J., Rex G.: Interval P-Matrices, ICS AS CR, Prague, 1994 (V-618), 6 pages
- [138] Rohn J.: NP-Hardness Results for Some Linear and Quadratic Problems, ICS AS CR, Prague, 1995 (V-619), 11 pages
- [139] Rohn J.: Validated Solutions of Linear Equations, ICS AS CR, Prague, 1995 (V-620), 11 pages
- [140] Rohn J.: Linear Interval Equations: Computing Sufficiently Accurate Enclosures in NP-Hard, ICS AS CR, Prague, 1995 (V-621), 7 pages
- [141] Rohn J.: Complexity of Solving Linear Interval Equations, ICS AS CR, Prague, 1995 (V-636), 7 pages
- [142] Rohn J.: Validated Solutions of Nonlinear Equations, ICS AS CR, Prague, 1995 (V-641), 5 pages
- [143] Rohn J.: Linear Programming with Inexact Data is NP-Hard, ICS AS CR, Prague, 1995 (V-642), 5 pages
- [144] Rohn J.: Enclosing Solutions of Overdetermined Systems of Linear Interval Equations, ICS AS CR, Prague, 1995 (V-643), 7 pages
- [145] Rohn J.: The Conjecture "P NP" and Overestimation in Bounding Solutions of Perturbed Linear Equations, ICS AS CR, Prague, 1995 (V-644), 5 pages
- [146] Rozložník M.: Metódy typu konjugovaných gradientov pre riešenie nesymetrických sústav lineárnych rovníc, ICS CAS, Prague, 1991 (V-493), 150 pages
- [147] Rozložník M.: Biconjugate Gradient-Type Methods for Solving Nonsymmetric Systems of Linear Equations, ICS CAS, Prague, 1991 (V-506), 25 pages
- [148] Rozložník M.: A Comparison of the Biconjugate Gradient Method and Related Methods for Solving Nonsymmetric Systems of Linear Equations, ICS AS CR, Prague, 1993 (V-548), 63 pages
- [149] Rozložník M., Strakoš Z.: Variants of the Residual Minimizing Krylov Space Method, ICS AS CR, Prague, 1994 (V-592), 26 pages
- [150] Rozložník M., Weiss R.: On the Stable Implementation of the Generalized Minimal Error Method, Universität Karlsruhe, Karlsruhe, 1995 (Technical Report 56/95), 19 pages

- [151] Růžička P., Kober R.: NEUCON - NEUral Network Based CONtrollers Learning – The Annual Report NEUCON, Research Center for Applied Knowledge Processing, Ulm, 1992 (Technical Report)
- [152] Růžička P.: Neural Networks Based Control – Final report of NEUCON Project, University Research Center for Applied Knowledge Processing, Ulm, 1992 (Technical Report)
- [153] Savický P., Žák S.: A Lower Bound on-branching Programs Reading Some Bits Twice, ICS AS CR, Prague, 1995 (V-647), 8 pages
- [154] Sochorová A., Rauch J., Hájek P., Bendová K., Harmancová D., Hlaváčková K., Zvárová J.: GUHA '93 (Interní publikace), ICS AS CR, Prague, 1993, 79 pages
- [155] Spedicato B., Tůma M.: Solving Sparse Unsymmetric Linear Systems by Implicit Gauss Algorithm, Stability, 4/93, University of Bergamo, Bergamo, 1993 (Technical Report), 36 pages
- [156] Spedicato E., Tůma M.: The Implicit LU Algorithm in the ABS Class for Sparse Matrices: Stability, University Bergamo, Bergamo, 1993 (Report DMSIA 7/93)
- [157] Strakoš Z.: A Note on the Rate of Convergence of the Conjugate Gradient Method and the Convergence of Ritz Values, ICS AV CR, Prague, 1991 (V-491), 17 pages
- [158] Strakoš Z.: Lanczos Algorithm, Orthogonal Polynomials and Continued Fraction., ICS AV CR, Prague, 1991 (V-500), 12 pages
- [159] Strakoš Z., Greenbaum A.: Open Questions in the Convergence Analysis of the Lanczos Process for the Real Symmetric Eigenvalue Problem, IMA Preprint Series No 934, IMA, Minnesota, 1992 (Technical Report), 43 pages
- [160] Strakoš Z.: Open Questions in the Convergence Analysis of the Lanczos Process for the Real Symmetric Eigenvalue Problem, ICS AV CR, Prague, 1992 (V-533), 43 pages
- [161] Šebesta V.: The Utilisation of Neural Networks in Medical Informatics, Euromise, Prague, 1995, 11 pages
- [162] Šiška M.: Preprocesor UFO – Verze 1990, ICS CAS, Prague, 1991 (V-484), 29 pages
- [163] Šíma J., Neruda R.: Designing Neural Expert Systems with EXPSYS, ICS AS CR, 1993 (V-563), 22 pages
- [164] Šíma J.: Back Propagations is not Efficient, ICS AS CR, Prague, 1994 (V-580), 10 pages
- [165] Šíma J., Wiedermann J.: Neural Language Acceptors, ICS AS CR, Prague, 1995 (V-625), 10 pages
- [166] Šmejkalová J.: NESP-91 : Programový systém pro klasifikaci signalů neuronovými sítěmi s využitím neurokoprocesorů ANZA-Plus, ICS CAS, Prague, 1991 (V-505), 26 pages
- [167] Štefek M.: Linear Regression Analysis, EuroMise, Prague, 1995 (EuroMISE Course - Final Thesis), 36 pages
- [168] Štuller J.: Konceptuální model činnosti Centra clustrovej medicíny, ICS AS CR, Prague, 1994 (V-571), 26 pages
- [169] Štuller J.: Some Comments on the Ordered Modified Gram-Schmidt Orthogonalization, ICS AS CR, Prague, 1994 (V-586), 18 pages
- [170] Švanda J.: Neuronová síť s multiplexováním vstupů a impulsním signálním mechanismem, ICS CAS, Prague, 1991 (V-511)
- [171] Švejda D.: Decision Support Systems in Medicine, EuroMise, Prague, 1995 (EuroMISE Course - Final Thesis), 40 pages
- [172] Tůma M.: Sparse Fractioned Variable Metric Updates, ICS CAS, Prague, 1991 (V-497), 34 pages

- [173] Tůma M.: The implicit Gausse Algorithm for Solving Sparse Unsymmetric Sets of Linear Equations – CSGS 1/85. : Series Calcolo Scientifico per Grandi Sistemi, University of Bergamo, Bergamo, 1992 (Technical Report), 24 pages
- [174] Tůma M.: Row Ordering in Sparse QR Decomposition, IMA Preprint Series No 1047, University of Minnesota, Minnesota, 1992 (Technical Report), 20 pages
- [175] Tůma M.: Porovnání rychlosti a přesnosti řešení nesymetrických lineárních systémů implicitní Gaussovou eliminací na výkonné výpočetní technice dostupné v AV ČR; Cray Y-MP RL a SGI Crimson s procesorem R4000, ICS AS CR, Prague, 1993 (V-558), 10 pages
- [176] Tůma M.: Solving Sparse Unsymmetric Sets of Linear Equations Based an Implicit Gauss Projection, ICS AS CR, Prague, 1993 (V-556), 28 pages
- [177] Tůma M., Rozložník M.: Porovnávání rychlosti a přesnosti řešení některých úloh lineární algebry na počítačích Silicon Graphics Crimson a Cray YMP EL, ICS AS CR, Prague, 1993 (V-564), 11 pages
- [178] Vítková G., Míček J.: Knowledge Processing by Neural Networks, ICS CAS, Prague, 1991 (V-492), 26 pages
- [179] Vítková G.: Analýza dynamického chování elektrizační soustavy s využitím neuronových sítí, ICS CAS, Prague, 1991 (V-520), 24 pages
- [180] Vítková G., Jelínek J.: Predikce mimořádných stavů prostřednictvím umělých neuronových sítí, ICS CAS, Prague, 1992 (V-540), 79 pages
- [181] Vlček J.: Bundle Algorithms for Nonsmooth Unconstrained Optimization, ICS AS CR, Prague, 1994 (V-608), 12 pages
- [182] Vojáček M.: Kompresie obrazové informace neuronovými sítěmi, ICS AS CR, Prague, 1994 (V-588), 33 pages
- [183] Wiedermann J.: Fast Sequential and Parallel Simulations of Nondeterministic Computations, ICS AS CR, Prague, 1993 (V-566), 13 pages
- [184] Wiedermann J., Šíma J., Neruda R.: An Optimal in-Situ Disk Sorting Algorithm Based on Heapsort, ICS AS CR, Prague, 1994 (V-591), 17 pages
- [185] Wiedermann J.: Separating Deterministic, Nondeterministic, and Co-Nondeterministic Time Complexity Classes for Single-Tape Computations, ICS AS CR, Prague, 1995 (V-628), 13 pages
- [186] Wiedermann J.: Five New Simulation Results on Turing Machines, ICS AS CR, Prague, 1995 (V-631), 12 pages
- [187] Zhadan V.: Generalized of Nonlinear Programming Methods for Solving Multiobjective Optimization Problems, ICS AS CR, Prague, 1995 (V-661), 10 pages
- [188] Zvárová J.: The Risk Estimation of HLA-Linked Diseases The Epidemiologic Approach, EuroMise, Prague, 1995 (EuroMISE Course - Final Thesis), unnumbered
- [189] Zvárová J., Hrach K., Malá I., Peleška J., Studený M., Štefek M., Švejda D., Tomečková M.: Managing Uncertainty in Medicine, EuroMISE, Prague, 1995 (Research Report), unnumbered
- [190] Žák S.: The Computational Power of Bi-Greedy In-Branching Programs, and its Bounds, ICS AS CR, Prague, 1994, (V-601) 14 pages
- [191] Žák S.: A Superpolynomial Lower Bound for $(1,+k(n))$ -Branching Programs, ICS AS CR, Prague, 1995, (V-646) 6 pages
- [192] Žák S.: A Sharp Separation Below Log, ICS AS CR, Prague, 1995, (V-655) 5 pages

11 Citations

12 Citations

- [1] Blažek M., Pančoška P.: Back Propagation Neural Network Analysis of Circular Dichroism Spectra of Globular Proteins. — In: NEURONET' 90. Proceedings International Symposium on Neural Networks and Neural Computing, ICS AS CR, Prague, 1990, 51-53
Cited: • Pancoska P., Keiderling T.A.: Systematic Comparison of Statistical-Analysis of Electronics and Vibrational Circular-Dichroism for Secondary Structure Prediction of Selected Proteins (Biochemistry 30, 1991, 6885-6895)
- [2] Dostál C., Popelka E., Ivašková E., Macurová H., Zvárová J.: First class HLA factors (A,B,C) in congenital hip joints dysplasia (CHJD). — Tissue Antigens, 26 (1985), 266-268
Cited: • Torisu T. (Arth. Rheum., 1993, 815)
- [3] Drkošová J., Rozložník M., Strakoš Z., Greenbaum A.: Numerical Stability of GMRES. — BIT, 35 (1995), 3, 309-336
Cited: • Chaitin-Chatelin F., Fraysse V. (Lecture on Finite Precision Computations. (ISBN 0-89871-358-7), 1996, 270, SIAM, Philadelphia) • Arloli M., Fassino C.: Roundoff Error Analysis of Algorithms Based on Krylov Subspace Methods (Research Report 944, 1995, Istituto di Analisi Numerica, Consiglio Nazionale delle Recherche, Pavia) • Braconnier T.: The Role of the Orthogonalization Scheme Used for Eigensolvers Applied to Nonnormal Matrices (Technical Report TR/PA/94/20, 1994, CERFACS, Toulouse) • CERFACS: Activity Report of the Parallel Algorithms Project at CERFACS (October 1993 - December 1994) (Technical Report TR/PA/95/37, 1995, Toulouse)
- [4] Fiedler M.: O některých vlastnostech hermitovských matic. — Matematicko-fyzikální časopis SAV, 7 (1957), 168-176
Cited: • Fuhrmann D.R.: Estimation of Sensor Gain and Phase (IEEE Transaction on Signal Processing 42, 1994, 77-87)
- [5] Fiedler M., Sedláček J.: O W-basích orientovaných grafů. — Časopis pro pěstování matematiky, 83 (1958), 214-225
Cited: • Merris R.: Laplacian Matrices of Graphs - A Survey (Linear Algebra and its Applications 197-198, 1994, 143-176)
- [6] Fiedler M.: A Note on Positive Definite Matrices. — Časopis pro pěstování matematiky, 85 (1960), 75-77
Cited: • Bakonyi M., Woerdeman H.J.: Maximum-Entropy Elements in the Intersection of an Affine Space and the Cone of Positive-Definite Matrices (SIAM Journal on Matrix Analysis and Applications 16, 1995, 369-376)
- [7] Fiedler M.: Über eine Ungleichung für positiv definite Matrizen. — Mathematische Nachrichten, 23 (1961), 197-199
Cited: • Ando T.: Majorizations and Inequalities in Matrix-Theory (Linear Algebra and its Applications 199, 1994, 17-67) • Ando T.: Majorization Relations for Hadamard Products (Linear Algebra and its Applications 223/224, 1995, 57-64) • Miller S.Y., Schwartz S.C.: Integrated Spatial-Temporal Detectors for Asynchronous Gaussian Multiple-Access Channels (IEEE Transactions on Communications 43, 1995, 396-411)
- [8] Fiedler M., Pták V.: On Matrices with Non-Positive Off-Diagonal Elements and Positive Principal Minors. — Czechoslovak Mathematical Journal, 87 (1962), 12, 382-400
Cited: • Lin X.D., SO J.W.H.: Global Stability of the Endemic Equilibrium and Uniform Persistence in Epidemic Models with Subpopulations (Journal of the Australian Mathematical Society Series B-Applied Mathematics 34, 1993, 282-295) • Kaszkurewicz E., Bhaya A.: Robust Stability and Diagonal Liapunov-Functions (SIAM Journal on Matrix Analysis and Applications 14, 1993, 508-523) • Ohta

- Y., Maeda H., Kodama S.: Rational Approximation of L1 Optimal Controllers for SISO Systems (IEEE Transaction on Automatic Control 37, 1992, 1683-1691) • Larsen C., Tind J.: Lagrangean Duality for Facial Programs with Applications to Integer and Complementarity-Problems (Operations Research Letters 11, 1992, 293-302) • Mori T., Kokame H.: A Necessary and Sufficient Condition for the Stability of Negative Interval Discrete-Systems - Comments (IEEE Transactions on Automatic Control 37, 1992, 1853-1854) • Antonelli P., Lin X., Bradbury R.H.: On Hutchinson Competition Equations and Their Homogenization - A Higher-Order Principle of Competitive-Exclusion (Ecological Modelling 60, 1992, 309-320) • Szulc T.: A Nonsingularity Criterion for Complex Matrices (Linear Algebra and its Applications 168, 1992, 145-158) • Ebiefung A.A., Kostreva M.M.: Generalized P/O/ - Matrices and Z-Matrices (Linear Algebra and its Applications 195, 1993, 165-179) • Kaszkurewicz E., Bhaya A.: On a Class of Globally Stable Neural Circuits (IEEE Transactions on Circuits and System I-Fundamental Theory and Applications 41, 1994, 171-174) • Pardalos P.M., Ye Y.Y., Han C.G., Kaliski J.A.: Solution of P/O/-Matrix Linear Complementarity-Problems Using a Potential Reduction Algorithm (SIAM Journal on Matrix Analysis and Applications 14, 1993, 1048-1060) • Coxson G.E.: The P-Matrix Problem Is Co-Np-Complete (Mathematical Programming 64, 1994, 173-178) • Perez R.A., Lou K.N.: Decentralized Multivariable Control and Stability a Gas-Turbine Engine (IEE Proceedings-Control Theory and Applications 141, 1994, 357-366) • Mohan S.R., Parthasarathy T., Sridhar R.: The Linear Complementarity-Problem with Exact Order Matrices (Mathematics of Operations Research 19, 1994, 618-644) • Tarbouriech S., Burgat C.: Positively Invariant-Sets for Constrained Continuous-Time Systems with Cone Properties (IEEE Transactions on Automatic Control 39, 1994, 401-405) • Bernan A., Plemmons R.: Nonnegative Matrices in the Mathematical Sciences, 1994, SIAM, Philadelphia) • Guu S.M., Cottle R.W.: On a Subclass of P0 (Linear Algebra and Its Applications 223/224, 1995, 325-335) • Smith R.L.: Some Results on a Partition of Z-Matrices (Linear Algebra and Its Applications 223/224, 1995, 619-629) • Sznajder R., Gowda Seetharama M.: Generalizations of P0- and P-Properties; Extended Vertical and Horizontal Linear Complementarity Problems (Linear Algebra and Its Applications 223/224, 1995, 695-715) • Johnson C.R.: Sign -determinancy in LU factorization of P-matrices (Linear Algebra and Its Applications 217, 1995, 135-166) • Perruquetti W., Richard J.P., Grujic L.T., Borne P.: On Practical Stability with the Settling Time via Vector Norms (International Journal of Control 62, 1995, 173-189) • Yu J.T.: On the Jacobian Conjecture - Reduction of Coefficients (Journal of Algebra 171, 1995, 515-523) • Habetler G.J., Szanc B.P.: Existence and Uniqueness of Solution for the Generalized Linear Complementarity-Problem (Journal of Optimization Theory and Applications 84, 1995, 103-116) • Kretzschmar M., Jager J.C., Reinking D.P., Vanzessen G., Brouwers H. : The Basic Reproduction Ratio R(O) for a Sexually-Transmitted-Disease in a Pair Formation Model with 2 Types of Pairs (Mathematical Biosciences 124, 1994, 181-205) • Ebiefung A.: Nonlinear Mapping Associated with the Generalized Linear Complementarity-Problem (Mathematical Programming 69, 1995, 255-268) • Mori T., Kokame H.: Comments on the Stability of Discrete-Time Linear Interval Systems (Automatica 31, 1995, 921-922) • Danao R.A.: Q-Matrices and Boundedness of Solutions to Linear Complementarity-Problems (Journal of Optimization Theory and Applications 83, 1994, 321-332) • Väliäho H.: Criteria for Sufficient Matrices (Linear Algebra and Its Applications 233, 1996, 109-129)
- [9] Fiedler M., Pták V.: Generalized Norms of Matrices and the Location of the Spectrum. — Czechoslovak Mathematical Journal, 87 (1962), 12, 558-571
Cited: • Lima T.P, Vitoria J.: Bounds for the Singular-Values of Block Companion Matrices (Linear Algebra and its Applications 170, 1992, 225-228) • Brualdi R.A.: The Symbiotic Relationship of Combinatorics and Matrix-Theory (Linear Algebra and its Applications 162, 1992, 65-105)
- [10] Fiedler M., Pták V.: Some Generalizations of Positive Definiteness and Monotonicity. — Numerische Mathematik, 9 (1966), 163-172
Cited: • Larsen C., Tind J.: Lagrangean Duality for Facial Programs with Applications to Integer and Complmentarity-Problems (Operations Research Letters 11, 1992, 293-302) • Cottle R.W, Guu S.M.: Characterizations of Sufficient Matrices (Linear Algebra and its Applications 170, 1992, 65-74) • Xu S.: Notes on Sufficient Matrices (Linear Algebra and its Applications 191, 1993, 1-13) •

- Pye W.C.: Almost P(0)-Matrices and the Class-Q (Mathematical Programming 57, 1992, 439-444)
 • Venkateswaran V.: An Algorithm for the Linear Complementarity - Problem with a P/O/-Matrix (SIAM Journal on Matrix Analysis and Applications 14 , 1993, 967-977) • Chen B.T., Harker P.T.: A Non-Interior-Point Continuation Method for Linear Complementarity-Problems (SIAM Journal on Matrix Analysis and Applications 14, 1993, 1168-1190) • Ebiefung A.A., Kostreva M.M.: Generalized P/O/-Matrices and Z-Matrices (Linear Algebra and its Applications 195, 1993, 165-179) • Guu S.M., Cottle R.W.: On a Subclass of P0 (Linear Algebra and Its Applications 223/224, 1995, 325-335) • Sznajder R., Gowda Seetharama M.: Generalizations of P0- and P-Properties; Extended Vertical and Horizontal Linear Complementarity Problems (Linear Algebra and Its Applications 223/224, 1995, 695-715) • Tütüncü R.H., Todd M.J.: Reducing Horizontal Linear Complementarity Problems (Linear Algebra and Its Applications 223/224, 1995, 717-729) • Green M.M., Willson A.N. Jr.: Transistor Circuits and Potentially Stable Operating Points (Linear Algebra and Its Applications 223/224, 1995, 267-283) • Bernan A., Plemmons R.: Nonnegative Matrices in the Mathematical Sciences, 1994, SIAM, Philadelphia) • Forti M., Tesi A.: New Conditions for Global Stability of Neural Networks with Application to Linear and Quadratic-Programming Problems (IEEE Transactions on Circuits and Systems I - Fundamental Theory and Applications 42 , 1995, 354-366) • Väliaho H.: Criteria for Sufficient Matrices (Linear Algebra and Its Applications 233, 1996, 109-129)
- [11] Fiedler M., Pták V.: Some Results on Matrices of Class K and Application to the Convergence Rate of Iteration Procedures. — Czechoslovak Mathematical Journal, 16 (1966), 91, 260-273
 Cited: • Szulc T.: On a Criterion for the Nonsingularity of Complex Matrices (Linear Algebra and its Applications 173, 1992, 39-56) • Szulc T.: Nonsingularity Criterion for Complex Matrices (Linear Algebra and its Applications 168, 1992, 145-158) • Forti M.: On Global Asymtotic Stability of a Class of Nonlinear-Systems Arising in Neural-Network Theory (Journal of Differential Equations 113, 1994, 246-264)
- [12] Fiedler M.: Matrix inequalities. — Numerische Mathematik, 9 (1966), 109-119
 Cited: • Barrett W.W., Lundquist M.E., Johnson Ch.R., Woerdeman H.J.: Completing a Block Diagonal Matrix with a Partially Prescribed Inverse (Linear Algebra and its Applications 223/224, 1995, 73-87) • Bakonyi M., Woerdeman H.J.: Maximum-Entropy Elements in the Intersection of an Affine Space and the Cone of Positive-Definite Matrices (SIAM Journal on Matrix Analysis and Applications 16, 1995, 369-376)
- [13] Fiedler M., Pták V.: Diagonally Dominant Matrices. — Czechoslovak Mathematical Journal, 92 (1967), 17, 420-433
 Cited: • Nabben R., Varga R.S.: On Classes of Inverse Z-Matrices (Linear Algebra and Its Applications 223/224, 1995, 521-552) • McDonald J.J., Neumann M., Schneider H., Tsatsomeros M.J.: Inverse M-Matrix Inequalities and Generalized Ultrametric Matrices (Linear Algebra and Its Applications 220, 1995, 321-341) • Nabben R., Varga R.S.: Generalized Ultrametric Matrices - A Class of Inverse Matrices (Linear Algebra and Its Applications 220, 1995, 365-390)
- [14] Fiedler M., Pták V.: Cyclic Product and an Inequality for Determinants. — Czechoslovak Mathematical Journal, 19 (1969), 94, 428-451
 Cited: • Eschenbach C.: Idempotence for Sign-Pattern Matrices (Linear Algebra and its Applications 180, 1993, 153-165) • Hershkow D. (SIAM J. Matr. 9, 1988, 1)
- [15] Fiedler M.: A Characterization of Tridiagonal Matrices. — Linear Algebra and its Applications, 2 (1969), 191-197
 Cited: • Eschenbach C. (Czechoslovak Mathematical Journal 119, 1994, 461)
- [16] Fiedler M.: Bounds for the Determinant of the Sum of Hermitian Matrices. — Proceedings of the AMS, 30 (1971), 27-31
 Cited: • Bebiano N., Kovacec A., Daprovencencia J.: The Validity of the Marcus-Deoliveira Conjecture for Essentially Hermitian Matrices (Linear Algebra and its Applications 198, 1994, 411-427) • Bebiano

- N.: New Developments on the Marcus-Oliveira Conjecture (Linear Algebra and its Applications 196, 1994, 793-803)
- [17] Fiedler M.: Bounds for Eigenvalues of Doubly Stochastic Matrices. — Linear Algebra and its Applications (1972), 5, 299-310
Cited: • Bolla M.: Spectra, Euclidean Representations and Clusterings of Hypergraphs (Discrete Mathematics 117, 1993, 19-39) • Rivest R.L., Schapire R.E.: Inference of Finite Automata Using Homing Sequences (Information and Computation 103, 1993, 299-347) • Rivest R.L., Schapire R.R.: Diversity-Based Inference of Finite Automata (Journal of the Association for Computing Machinery 41, 1994, 555-589) • Bernan A., Plemmons R.: Nonnegative Matrices in the Mathematical Sciences, 1994, SIAM, Philadelphia)
- [18] Fiedler M.: Algebraic Connectivity of Graphs. — Czechoslovak Mathematical Journal, 23 (1973), 98, 298-305
Cited: • Mohar B.: Laplace Eigenvalue of Graphs - A Survey (Discrete Mathematics 109, 1992, 171-183) • Botti P., Merris R., Vega C.: Laplacian Permanents of Trees (SIAM Journal on Discrete Mathematics 5, 1992, 460-466) • Brualdi R.A.: The Symbiotic Relationship of Combinatorics and Matrix-Theory (Linear Algebra and its Applications 162, 1992, 65-105) • Bolla M.: Spectra, Euclidean Representations and Clusterings of Hypergraphs (Discrete Mathematics 117, 1993, 19-39) • Delorme C., Poljak S.: The Performance of an Eigenvalue Bound on the Max-Cut Problem in Some Classes of Graphs (Discrete Mathematics 111, 1993, 145-156) • Juvan M., Mohar B.: Laplace Eigenvalue and Bandwidth-Type Invariants of Graphs (Journal of Graph Theory 17, 1993, 393-407) • Paulino G.H., Menezes I.F.M., Gattass M., Mukherjee S.: Node and Element Resequencing Using the Laplacian of a Finite-Element Graph .1. General Concepts and Algorithm (International Journal for Numerical Methods in Engineering 37, 1994, 1511-1530) • Merris R.: Laplacian Matrices of Graphs - A Survey (Linear Algebra and its Application 197-198, 1994, 143-176) • Delorme C., Poljak, S.: Laplacian Eigenvalues and the Maximum Cut Problem (Mathematical Programming 62, 1993, 557-574) • Grone R., Merris R.: The Laplacian Spectrum of a Graph. 2. (SIAM Journal on Discrete Mathematics 7, 1994, 221-229) • Cvetkovič O. (Univ. Beograd Publ. Elektrot. Fak. Ser. Mat. 3, 1992, 21-26) • Ozturan C., Decouigny H.L., Shephard M.S., Flaherty J.E.: Parallel Adaptive Mesh Refinement and Redistribution on Distributed-Memory Computers (Computer Methods in Applied Mechanics and Engineering 119, 1994, 123-137) • Johan Z., Mathur K.K., Johnsson S.L., Hughes T.J.R.: An Efficient Communications Strategy for Finite-Element Methods on the Connection Machine cm-5 System (Computer Methods in Applied Mechanics and Engineering 113, 1994, 363-387) • Poljak S., Rendl F.: Solving the Max-Cut Problem Using Eigenvalues (Discrete Applied Mathematics 62, 1995, 249-278) • Decouigny H.L., Devine K.D., Flaherty J.E., Loy R.M., Ozturan C., Shephard M.S.: Load Balancing for the Parallel Adaptive Solution of Partial-Differential Equations (Applied Numerical Mathematics 16, 1994, 157-182) • Hendrickson B., Leland R.: An Improved Spectral Graph Partitioning Algorithm for Mapping Parallel Computations (SIAM Journal of Scientific Computing 16, 1995, 452-469) • Wu C.W., Chua L.O.: Application of Graph-Theory to the Synchronization in an Array of Coupled Nonlinear Oscillators (IEEE Transactions on Circuits and Systems I - Fundamental Theory and Applications 42, 1995, 494-497)
- [19] Fiedler M.: A Quantitative Extension of the Perron-Frobenius Theorem — Linear and Multilinear Algebra, 1 (1973), 81-88
Cited: • Bernan A., Plemmons R.: Nonnegative Matrices in the Mathematical Sciences, 1994, SIAM, Philadelphia)
- [20] Fiedler M., Haynsworth E.: Cones Which Are Top Heavy with Respect to a Norm. — Linear and Multilinear Algebra, 1 (1973), 203-211
Cited: • Lyubich Y.: Perron-Frobenius Theory for Finite-Dimensional Spaces with a Hyperbolic Cone (Linear Algebra and Its Applications 220, 1995, 283-309)
- [21] Fiedler M.: Eigenvalues of Nonnegative Symmetric Matrices. — Linear Algebra and its Applications, 9 (1974), 119-142

- Cited: • Chu M.T.: Matrix Differential-Equations - A Continuous Realization Process for Linear Algebra Problems (Nonlinear Analysis-Theory Methods & Applications 18, 1992, 1125-1146) • Borobia A.: On the Nonnegative Eigenvalue Problem (Linear Algebra and Its Applications 223/224, 1995, 131-140) • Bernan A., Plemmons R.: Nonnegative Matrices in the Mathematical Sciences, 1994, SIAM, Philadelphia)
- [22] Fiedler M.: Additive Compounds Matrices and an Inequality for Eigenvalues of Symmetric Stochastic Matrices. — Czechoslovak Mathematical Journal, 99 (1974) , 392-402
Cited: • Bernan A., Plemmons R.: Nonnegative Matrices in the Mathematical Sciences, 1994, SIAM, Philadelphia)
- [23] Fiedler M.: Eigenvectors of Acyclic Matrices. — Czechoslovak Mathematical Journal, 25 (1975), 100, 607-618
Cited: • Mohar B.: Laplace Eigenvalues of Graphs - A Survey (Discrete Mathematics 109, 1992, 171-183) • Juvan M., Mohar B.: Optimal Linear Labelings and Eigenvalues of Graphs (Discrete Applied Mathematics 36, 1992, 153-168) • Brualdi R.A.: The Symbiotic Relationship of Combinatorics and Matrix-Theory (Linear Algebra and its Applications 162, 1992, 65-105) • Paulino G.H., Menezes I.F.M., Gattass M., Mukherjee S.: Node and Element Resequencing Using the Laplacian of a Finite-Element Graph. 1. General Concepts and Algorithm (International Journal for Numerical Methods in Engineering 37, 1994, 1511-1530) • Merris R.: Laplacian Matrices of Graphs (Linear Algebra Applications 197-198, 1994, 143-176) • Johan Z., Mathur K.K., Johnsson S.L., Hughes T.J.R.: An Efficient Communications Strategy for Finite-Element Methods on the Connection Machine cm-5 System (Computer Methods in Applied Mechanics and Engineering 113, 1994, 363-387) • Bernan A., Plemmons R.: Nonnegative Matrices in the Mathematical Sciences, 1994, SIAM, Philadelphia) • Hsieh S.H., Paulino G.H., Abel J.F.: Recursive Spectral Algorithms for Automatic Domain Partitioning in Parallel Finite-Element Analysis (Computer Methods in Applied Mechanics and Engineering 121, 1995, 137-162)
- [24] Fiedler M.: Algebraic Approach to Connectivity of Graphs. — In: Proceedings of Recent Advances in Graph Theory, Academia, Prague, 1975, 193-196
Cited: • Merris R.: Laplacian Matrices of Graphs (Linear Algebra Applications 197-198, 1994, 143-176) • Wu C.W., Chua L.O.: Application of Graph-Theory to the Synchronization in an Array of Coupled Nonlinear Oscillators (IEEE Transactions on Circuits and Systems I - Fundamental Theory and Applications 42, 1995, 494-497)
- [25] Fiedler M.: Algebraische Zusammenhangszahl und ihre numerische Bedeutung. — In: ISNM 29, Birkhäuser, Basel, 1975, 69-85
Cited: • Merris R.: Laplacian Matrices of Graphs (Linear Algebra Applications 197-198, 1994, 143-176)
- [26] Fiedler M.: A Property of Eigenvectors of Nonnegative Symmetric Matrices and its Application to Graph Theory. — Czechoslovak Mathematical Journal, 25 (1975), 100, 619-633
Cited: • Merris R.: Laplacian Matrices of Graphs (Linear Algebra Applications 197-198, 1994, 143-176) • Paulino G.H., Menezes I.F.M., Gattass M., Mukherjee S.: Node and Element Resequencing Using the Laplacian of a Finite-Element Graph 1. General Concepts and Algorithm (International Journal for Numerical Methods in Engineering 37, 1994, 1511-1530) • Johan Z., Mathur K.K., Johnsson S.L., Hughes T.J.R.: An Efficient Communications Strategy for Finite-Element Methods on the Connection Machine cm-5 System (Computer Methods in Applied Mechanics and Engineering 113, 1994, 363-387) • Hendrickson B., Leland R.: An Improved Spectral Graph Partitioning Algorithm for Mapping Parallel Computations (SIAM Journal on Scientific Computing 16, 1995, 452-469)
- [27] Fiedler M.: Aggregation in Graphs. — Coll. Math. Soc. J. Bolyai (1976), 18, 315-330
Cited: • Merris R.: Laplacian Matrices of Graphs (Linear Algebra Applications 197-198, 1994, 143-176)

- [28] Fiedler M.: Inversion of bigraphs and connections with the Gauss elimination. — In: *Graphs, Hypergraphs and Block Systems*, -, Zielona Góra, 1976, 57-68
Cited: • Gilbert J.R.: Predicting Structure in Sparse-Matrix Computations (*SIAM Journal on Matrix Analysis and Applications* 15, 1994, 62-79)
- [29] Fiedler M., Pták V.: Diagonals of Convex Sets. — *Czechoslovak Mathematical Journal*, 28 (1978), 103, 25-44
Cited: • Tam B.S.: On the Structure of the Cone of Positive Operators (*Linear Algebra and its Applications* 167, 1992, 65-85)
- [30] Fiedler M., Pták V.: The Rank of Extreme positive Operators on Polyhedral Cones. — *Czechoslovak Mathematical Journal*, 28 (1978), 103, 45-55
Cited: • Tam B.S.: On the Structure of the Cone of Positive Operators (*Linear Algebra and its Applications* 167, 1992, 65-85)
- [31] Fiedler M.: Irreducibility of compound matrices. — *Czechoslovak Mathematical Journal*, 20 (1979), 737-743
Cited: • Grone R., Merris R.: The Laplacian Spectrum of a Graph 2. (*SIAM Journal on Discrete Mathematics* 7, 1994, 221-229)
- [32] Fiedler M.: Minimal Polynomial and the Rank of Principal Submatrices of a Matrix. — *Linear and Multilinear Algebra*, 10 (1981), 85-88
Cited: • Hartwig R.E., Neumann M.: Bounds on the Exponent of Primitivity Which Depend on the Spectrum and the Minimal Polynomial (*Linear Algebra and its Applications* 184, 1993, 103-122)
- [33] Fiedler M.: Remarks on the Schur Complement. — *Linear Algebra and its Applications*, 39 (1981), 189-196
Cited: • Fiedler M., Markham T.L.: Quasi-Direct Addition of Matrices and Generalized Inverses (*Linear Algebra and its Applications* 191, 1993, 165-182)
- [34] Fiedler M., Grone R.: Characterizations of Sign Patterns of Inverse-Positive Matrices. — *Linear Algebra and Its Applications*, 40 (1981), 237-245
Cited: • Brualdi R.A., Shader B.L.: *Matrices of Sign-solvable Linear Systems*, 1995, University Press, Cambridge)
- [35] Fiedler M., Schneider H.: Analytic Functions of M-matrices. — *Linear and Multilinear Algebra*, 13 (1983), 185-201
Cited: • Marek I.: On Square Roots of M-Operators (*Linear Algebra and Its Applications* 223/224, 1995, 501-520)
- [36] Fiedler M.: A Note on the Hadamard Product of Matrices. — *Linear Algebra and its Applications*, 49 (1983), 233-235
Cited: • Ando T.: Majorizations and Inequalities in Matrix-Theory (*Linear Algebra and its Applications* 199, 1994, 17-67) • Ando T.: Majorization Relations for Hadamard Products (*Linear Algebra and its Applications* 223/224, 1995, 57-64) • Visick G.: A Weak Majorization Involving the Matrices $A \circ B$ and AB (*Linear Algebra and Its Applications* 223/224, 1995, 731-744)
- [37] Fiedler M.: Combinatorial Properties of sign-patterns in some classes of matrices. — In: *Graph Theory*, Springer-Verlag, Berlin, 1983, 28-32
Cited: • Brualdi R.A., Shader B.L.: *Matrices of Sign-solvable Linear Systems*, 1995, University Press, Cambridge)
- [38] Fiedler M.: S-Matrices. — *Linear Algebra and its Applications*, 57 (1984), 157-167
Cited: • Pták V.: The Infinite Companion Matrix (*Linear Algebra and its Applications* 166, 1992, 65-95) • Pták V.: Decomposition of the finite Companion and Interpolation (*Linear Algebra and its Applications* 215, 1995, 161-178)

- [39] Fiedler M.: Hankel and Loewner Matrices. — Linear Algebra and its Applications, 58 (1984), 75-95
Cited: • Chen G.N., Yang Z.G.: Bezoutian Representation Via Vandermonde Matrices (Linear Algebra and its Applications 186, 1993, 37-44) • Pták V., Vavřín Z.: Bezout, Hankel and Loewner Matrices (Linear Algebra and its Applications 184, 1993, 13-36) • Chen G.N., Zhang H.P.: More on Loewner Matrices (Linear Algebra and its Applications 204, 1994, 265-300) • Gekhtman M.L., Shmoish M.: On Invertibility of Nonsquare Generalized Bezoutians (Linear Algebra and Its Applications 223/224, 1995, 205-241) • Rost K., Vavřín Z.: Recursive Solution of Löwner-Vandermonde Systems of Equations. II (Linear Algebra and Its Applications 223/224, 1995, 597-617) • Chen G., Zhang H.: Note on Products of Bezoutians and Hankel Matrices (Linear Algebra and Its Applications 225, 1995, 23-35) • Kailath T., Sayed A.H.: Displacement Structure - Theory and Applications (SIAM Review 37, 1995, 297-386) • Bini D., Gemignani L.: Fast Parallel Computation of the Polynomial Remainder Sequence via Bezout and Hankel-Matrices (SIAM Journal on Computing 24, 1995, 63-77) • Rost K., Vavřín Z.: Recursive Solution of Löwner-Vandermonde Systems of Equations. I (Linear Algebra and Its Applications 233, 1996, 51-65) • Väliäho H.: Criteria for Sufficient Matrices (Linear Algebra and Its Applications 233, 1996, 109-129)
- [40] Fiedler M.: Quasidirect Decompositions of Hankel and Toeplitz Matrices. — Linear Algebra and its Applications, 61 (1984), 155-174
Cited: • Gouveia M.C.: Generalized Invertibility of Hankel and Toeplitz Matrices (Linear Algebra and its Applications 193, 1993, 95-106) • Chen G., Zhang H.: Note on Products of Bezoutians and Hankel Matrices (Linear Algebra and Its Applications 225, 1995, 23-35) • Pták V.: Characteristics of Hankel Matrices (Czechoslovak Mathematical Journal 45, 1995, 303-313)
- [41] Fiedler M.: Polynomials and Hankel Matrices. — Linear Algebra and its Applications, 66 (1985), 235-248
Cited: • Chen G.N., Yang Z.G.: Bezoutian Representation Via Vandermonde Matrices (Linear Algebra and its Applications 186, 1993, 37-44) • Pták V., Vavřín Z.: Bezout, Hankel, and Loewner Matrices (Linear Algebra and its Applications 184, 1993, 13-36) • Chen G.N., Zhang H.P.: More on Loewner Matrices (Linear Algebra and its Applications 204, 1994, 265-300) • Pták V.: Characteristics of Hankel Matrices (Czechoslovak Mathematical Journal 45, 1995, 303-313)
- [42] Fiedler M., Markham T.: Completing a Matrix when Certain Entries of its Inverse are Specified. — Linear Algebra and its Applications, 74 (1986), 225-237
Cited: • Brualdi R.A., Massey J.J.Q.: More on Structure-Ranks of Matrices (Linear Algebra and its Applications 183, 1993, 193-199) • Johnson C.R., Lundquist M.: An Inertia Formula for Hermitian Matrices with Sparse Inverses (Linear Algebra and its Applications 162, 1992, 541-556) • Bart H., Tsekanovskij V.E.: Complementary Schur Complements (Linear Algebra and its Applications 197-198, 1994, 651-658) • Paige C.C., Wei M.: History and Generality of the Cs Decomposition (Linear Algebra and its Applications 209, 1994, 303-326) • Bart H., Tsekanovskii V.E.: Complementary Schur Complements (Linear Algebra and its Applications 198, 1994, 651-658) • Barrett W.W., Lundquist M.E., Johnson Ch.R., Woerdeman H.J.: Completing a Block Diagonal Matrix with a Partially Prescribed Inverse (Linear Algebra and its Applications 223/224, 1995, 73-87)
- [43] Fiedler M.: Special Matrices and Their Applications in Numerical Mathematics, Martinus Nijhoff Publ. & SNTL, Dordrecht & Prague, 1986
Cited: • Falsone G.: Stochastic Linearization of M dof Systems Under Parametric Excitations (International Journal of Non-Linear Mechanics 27, 1992, 1025-1037) • Davis B.R., Pattison T.R.: Error in Proof of Exponential Convergence (Neural Networks 5, 1992, 869-869) • Rejagopalan C., Lesieutre B., Sauer P.W., Pai M.A.: Dynamic Aspects of Voltage Power Characteristics (IEEE Transaction on Power Systems 7, 1992, 990-1000) • Pijnappel W.W.F., Vandenboogaart A., Debeer R., Vanormondt D.: SVD-Based Quantification of Magnetic-Resonance Signals (Journal of Magnetic Resonance 97, 1992, 122-134) • Hundsdorfer W.: Unconditional Convergence of Some Crank-Nicolson Lod Methods for Initial-Boundary Value-Problems (Mathematics of Computation 58, 1992, 35-53) • Debeer R.,

- Vanormondt D., Pijnappel W.W.F.: Quantification of 1-D and 2-D Magnetic-Resonance Time Domain Signals (Pure and Applied Chemistry 64, 1992, 815-823) • Sachs R.K., Chen P., Hahnfeldt P., Lai D., Hlatky L.R.: DNA Damage in Nonproliferating Cells Subjected to Ionizing Irradiation at High or Low-Dose Rates (Journal of Mathematical Biology 31, 1993, 291-315) • Xu S.: Notes on Sufficient Matrices (Linear Algebra and its Applications 191, 1993, 1-13) • Valiaho H.: The Boolean Pivot Operation, M-Matrices, and Reducible Matrices (Linear Algebra and its Applications 185, 1993, 143-163) • Gregor J.: Singular Systems of Partial Difference-Equations (Multidimensional Systems and Signal Processing 4, 1993, 67-82) • Bhatia R.: DNA Damage in Nonproliferating Cells Subjected to Ionizing Irradiation at High or Low-Dose Rates (Linear Algebra Applications 197-198, 1994, 245-276) • Kiely A.B., Coffey J.T.: On the Capacity of a Cascade of Channels (IEEE Transactions on Information Theory 39, 1993, 1310-1321) • Pardalos P.M., Ye Y.Y., Han C.G., Kaliski J.A.: Solution of P(O)-Matrix Linear Complementarity-Problems Using a Potential Reduction Algorithm (SIAM Journal on Matrix Analysis and Applications 14, 1993, 1048-1060) • Heiligers B.: Totally Nonnegative Moment Matrices (Linear Algebra and its Applications 199, 1994, 213-227) • Rohn J.: Positive Definiteness and Stability of Interval Matrices (SIAM Journal on Matrix Analysis and Applications 15, 1994, 175-184) • Yan Ch. (International Journal on Control 58, 1993, 1385) • Wasem O.J.: Power Distribution in Robust, Passive, Fiber Optic Local Communications Networks with Circulant Topologies (IEEE Transactions on Communications 42, 1994, 1187-1197) • Chan P.K., Schlag M.D.F., Zien J.Y.: Spectral K-Way Ratio-Cut Partitioning and Clustering (IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems 13, 1994, 1088-1096) • Dorfler P., Schmeisser G.: Construction of Unitary and Normal Companion Matrices (Linear Algebra and its Applications 202, 1994, 193-220) • Martin P.A., Rizzo F.J.: Partitioning, Boundary Integral-Equations, and Exact Greens-Functions (International Journal for Numerical Methods in Engineering 38, 1995, 3483-3495) • Blajer W.: An Orthonormal Tangent-Space Method for Constrained Multibody Systems (Computer Methods in Applied Mechanics and Engineering 121, 1995, 45-57) • Gesztesy F., Weikard R.: Treibich-Verdier Potentials and the Stationary (M)KdV Hierarchy (Mathematische Zeitschrift 219, 1995, 451-476) • Sachs R.K., Vandenengh G., Trask B., Yokota H., Hearst J.E.: Random-Walk Giant-Loop Model for Interphase Chromosomes (Proceedings of the National Academy of Sciences of the USA 92, 1995, 2710-2714) • Stoica P., Cedervall M.: On Lp-Music (IEEE Transactions on Signal Processing 43, 1995, 552-555)
- [44] Fiedler M., Markham T.: Rank - Preserving Diagonal Completions of a Matrix. — Linear Algebra and its Applications, 85 (1987), 47-56
Cited: • Brualdi R.A., Massey J.J.Q.: More on Structure-Ranks of Matrices (Linear Algebra and its Applications 183, 1993, 193-199)
- [45] Fiedler M., Pták V.: Bezoutians and Intertwining Matrices. — Linear Algebra and its Applications, 86 (1987), 43-51
Cited: • Chen G.N., Yang Z.G.: Bezoutian Representation Via Vandermonde Matrices (Linear Algebra and its Applications 186, 1993, 37-44) • Chen G.N., Zhang H.P.: More on Loewner Matrices (Linear Algebra and its Applications 204, 1994, 265-300) • Pták V. (Linear Algebra Applications 197-198, 1994, 824) • Chen G., Zhang H.: Note on Products of Bezoutians and Hankel Matrices (Linear Algebra and Its Applications 225, 1995, 23-35)
- [46] Fiedler M., Pták V.: Intertwining and Testing Matrices Corresponding to a Polynomial. — Linear Algebra and its Applications, 86 (1987), 53-74
Cited: • Pták V. (Linear Algebra Applications 197-198, 1994, 824) • Chen G., Zhang H.: More on Loewner Matrices (Linear Algebra Applications 204, 1994, 265-300) • Pták V.: Characteristics of Hankel Matrices (Czechoslovak Mathematical Journal 45, 1995, 303-313)
- [47] Fiedler M., Pták V.: Loewner and Bézout Matrices. — Linear Algebra and its Applications, 101 (1988), 187-220
Cited: • Pták V. (Linear Algebra Applications 197-198, 1994, 824) • Chen G., Zhang H.: More on Loewner Matrices (Linear Algebra Applications 204, 1994, 265-300) • Rost K., Vavřín Z.: Recursive

- Solution of Löwner-Vandermonde Systems of Equations. II (Linear Algebra and Its Applications 223/224, 1995, 597-617) • Chen G., Zhang H.: Note on Products of Bezoutians and Hankel Matrices (Linear Algebra and Its Applications 225, 1995, 23-35)
- [48] Fiedler M.: Laplacian of Graphs and Algebraic Connectivity. — *Combinatorics and Graph Theory*, 25 (1989), 57-70
Cited: • Merris F.: Laplacian Matrices of Graphs (Linear Algebra Applications 197-198, 1994, 142-176) • Mohar B.: Laplace Eigenvalues of Graphs - A Survey (Discrete Mathematics 109, 1992, 171-183) • Drury S.W.: On Symmetrical Functions of the Eigenvalues of the Sum of 2 Hermitian Matrices (Linear Algebra and Its Applications 176, 1992, 211-222)
- [49] Fiedler M.: Absolute Algebraic Connectivity of Trees. — *Linear and Multilinear Algebra*, 26 (1990), 85-106
Cited: • Mohar B.: Laplace Eigenvalues of Graphs - A Survey (Discrete Mathematics 109, 1992, 171-183) • Brualdi R.A.: The Symbiotic Relationship of Combinatorics and Matrix-Theory (Linear Algebra nad its Applications 162, 1992, 65-102) • Merris R.: Laplacian Matrices of Graphs (Linear Algebra Applications 197-198, 1994, 143-176)
- [50] Fiedler M.: A Minimax Problem for Graphs and its Relation to Generalized Doubly Stochastic Matrices. — *Linear and Multilinear Algebra*, 27 (1990), 1-23
Cited: • Poljak S.: Minimum Spectral-Radius of a Weighted Graph (Linear Algebra and its Applications 171, 1992, 53-63) • Mohar B.: Laplace Eigenvalues of graphs - A Survey (Discrete Mathematics 109, 1992, 171-183)
- [51] Fiedler M.: Expressing a Polynomial As Characteristic Polynomial of a Symmetric Matrix. — *Linear Algebra and its Applications*, 141 (1990), -, 265-270
Cited: • Malek F., Vaillancourt R.: A Composite Polynomial Zerofinding Matrix Algorithm (Computers & Mathematics with Applications 30, 1995, 37-47) • Malek F., Vaillancourt R.: Polynomial Zerofinding Iterative Matrix Algorithms (Computers & Mathematics with Applications 29, 1995, 1-13) • Hiriarturruty J.B., Ye D.: Sensitivity Analysis of All Eigenvalues of a Symmetrical Matrix (Numerische Mathematik 70, 1995, 45-721)
- [52] Fiedler M., Markham T.: A classification of Matrices od Class Z. — *Linear Algebra and Its Applications*, 173 (1992), 115-124
Cited: • Smith R.L.: Some Results on a Partition of Z-Matrices (Linear Algebra and Its Applications 223/224, 1995, 619-629) • Nabben R., Varga R.S.: On Classes of Inverse Z-Matrices (Linear Algebra and Its Applications 223/224, 1995, 521-552)
- [53] Fiedler M.: A Geometric Approach to the Laplacian Matrix of a Graph. — In: *Combinatorial and Graph-Theoretical Problems in Linear Algebra*. (Ed.: Brualdi R.A., Friedland S., Klee V.), Springer-Verlag, New York, 1993, 73-98
Cited: • Merris R.: Laplacian Matrices of Graphs (Linear Algebra Applications 197-198, 1994, 143-176)
- [54] Fiedler M.: An Estimate for the Non-Stochastic Eigenvalues of Doubly Stochastic Matrices. — IN PRINT — *Linear Algebra and its Applications*
Cited: • Merris R.: Laplacian Matrices of Graphs (Linear Algebra and its Applications 197-198, 1994, 143-176)
- [55] Fiedler M., Pták V.: Block Analogies of Comparison Matrices. — IN PRINT — *Linear Algebra and its Applications*
Cited: • Dieci L., Bader G.: Block Iterations and Compactification for Periodic Block Dominant Systems Associated to Invariant Tori Approximation (Applied Numerical Mathematics 17, 1995, 251-247)

- [56] Greenbaum A., Strakoš Z.: Predicting the Behavior of Finite Precision Lanczos and Conjugate Gradient Computations. — *SIAM Journal on Matrix Analysis and Applications*, 13 (1992), 1, 121-137
 Cited: • Higham N.J., Knight P.A.: Componentwise Error Analysis for Stationary Iterative Methods (*Linear Algebra and Its Applications* 192, 1993, 165-186) • Higham N.J., Knight P.A.: Componentwise Error Analysis for Stationary Iterative Methods (*Proceedings of Workshop in Linear Algebra, Markov Chains and Queuing Models, IMA Vol.in Math. and Its Application, Springer-Verlag*, 1994) • Parlett B.N.: Do We Fully Understand the Symmetric Lanczos Algorithm Yet? (*Proceedings of the Lanczos Centenary Conference, 1994, 93-108, SIAM, Philadelphia*) • Greenbaum A.: The Lanczos and CG Algorithms in Finite Precision Arithmetics (*Proceedings of the Lanczos Centenary Conference, Raileigh, 1994*) • Axelsson O. (*Iterative Solution Methods, Cambridge University Press, 1994, 654*) • Golub G.H., Ortega J.M. (*Scientific Computing - an Introduction with Parallel Computing, 1993, 472, Academic Press, Boston*) • Axelsson O.: On the Rate of Convergence of the CG Method (*Numerische Mathematik (SUBMITTED), 1994*) • Axelsson O.: The Rate of Convergence of the CG Methods (*12. Householder Symposium on Numerical Linear Algebra, CAM Report 93-12, UCLA, 1993*) • Barret R., Berry M., Chan I., Demmel J., Donato J., Dongarra J., Eijkhout V., Pozo R., Romine Ch., van der Vorst V. (*Templates for the Solution of Linear Systems: Building Blocks for Iterative Methods, SIAM Philadelphia, 1993, 112*) • Notay Y.: On the Convergence Rate of the Conjugate Gradient Method in Presence of Rounding Errors (*Numerische Mathematik* 65, 1993, 301-317) • Datta, Biswa Nath (*Numerical Linear Algebra and Applications, 1995, 661, Brooks/Cole Publishing Company, Pacific Grove*)
- [57] Greenbaum A., Strakoš Z.: Matrices that Generate the Same Krylov Residual Spaces. — In: *Recent Advances in Iterative Methods, Springer-Verlag, New York, 1994, 95-118*
 Cited: • Holmgren S.: *Fast Solvers for First-Order PDE. (Ph. D. Thesis, 1993, Uppsala University)*
- [58] Hakl F.: Basic Theory of Neural Networks Derived from the B-S-B Model. — *Neural Network World*, 3 (1993), 3, 319-351
 Cited: • Jiřina M., Řízek S.: Identification of Events in Nuclear Physics by Neural Networks (*Neural Networks Word* 3, 1995, 893-903)
- [59] Havránek T.: Alternative Approach to Missing Information in the GUHA Method. — *Kybernetika*, 16 (1980), 145-155
 Cited: • Holeňa M.: *Exploratory Data Processing Using a Fuzzy Generalization of the GUHA Approach. (Applied Decision Technologies. Fuzzy Logic, 1995, 139-142, Unicom Seminars, London)*
- [60] Havránek T.: Some comments on GUHA procedures. — In: *Explorative Datenanalyse. (Ed.: Victor N., Lehmacher W., van Eimeren W.), Springer-Verlag, Berlin, 1980, 156-117*
 Cited: • Holeňa M.: *Exploratory Data Processing Using a Fuzzy Generalization of the GUHA Approach. (Applied Decision Technologies. Fuzzy Logic, 1995, 139-142, Unicom Seminars, London)*
- [61] Havránek T.: A Procedure for Model Search in Multidimensional Contingency Tables. — *Biometrics*, 40 (1984), 95-100
 Cited: • Malvestuto F.M.: Approximating Discrete Probability-Distributions with Decomposable Models (*IEEE Transactions on Systems and Cybernetics* 21, 1991, 1287-1294) • Malvestuto F.M.: Approximating Discrete Probability-Distributions with Decomposable Models (*IEEE Transactions on Systems Man and Cybernetics* 21, 1991, 1287-1294)
- [62] Havránek T.: An Interpretation of Hájek-Valdés Results on the Dempster's Semigroup. — In: *AI'88, VUSK, Prague, 1988, 69-76*
 Cited: • Daniel M.: *Dempsterova pologrupa a práce s nejstotou v pravidlově orientovaných expertních systémech (Kandidátská disertační práce, 1993, ICS AS CR, Prague)*
- [63] Hájek P.: On Interpretability in Set Theories. — *Commentationes Mathematicae Universitatis Carolinae*, 12 (1971), 73-79
 Cited: • Lindström P.: *The Arithmetization of Metamathematics and Some of Its Applications,*

- 1995, Univ. of Göteborg) • Dzhaparidze G.: A Generalized Notion of Weak Interpretability and the Corresponding Modal Logic (Annals of Pure and Applied Logic 61, 1993, 113-160)
- [64] Hájek P.: On Interpretability in Sets Theories II. — *Commentationes Mathematicae Universitatis Carolinae*, 13 (1972), 445-455
Cited: • Dzhaparidze G.: A Generalized Notion of Weak Interpretability and the Corresponding Modal Logic (Annals of Pure and Applied Logic 61, 1993, 113-160)
- [65] Hájek P., Hájková M.: On Interpretability in Theories Containing Arithmetic. — *Fundamenta Mathematicae*, 76 (1972), 131-137
Cited: • Lindström P.: The Arithmetization of Metamathematics and Some of Its Applications, 1995, Univ. of Göteborg)
- [66] Hájek P.: On Logics of Discovery. — In: *Mathematical Foundations of Computer Science 1975*. (Ed.: Bečvář J.), Springer-Verlag, Berlin, 1975, 30-45
Cited: • Fagin R.: Finite-Model Theory - A Personal Perspective (*Theoretical Computer Science* 116, 1993, 3-31) • Fagin R., Stockmeyer L., Vardi M.Y.: On Monadic NP vs. Monadic co-NP (IBM Research Report RJ 9225 (81789), 1993) • Fagin R.: On Monadic NP Versus Monadic co-NP (Research Report RJ 9225 (81789), 1995, IBM Research Division, Yorktown Heights)
- [67] Hájek P., Havránek T.: On Generation of Inductive Hypotheses. — *International Journal of Man-Machine Studies*, 9 (1977), 415-438
Cited: • Holeňa M.: Exploratory Data Processing Using a Fuzzy Generalization of the GUHA Approach. (Applied Decision Technologies. *Fuzzy Logic*, 1995, 139-142, Unicom Seminars, London)
- [68] Hájek P.: Generalized Quantifiers and Finite Sets. — In: *Set Theory and Hierarchy Theory*, Wrocław, 1977, 91-104
Cited: • Kolaitis P., Väänänen J.: Generalized Quantifiers and Pebble Games on Finite Structures (Preprint No 6, University of Helsinki, 1992) • Fagin R.: Finite-Model Theory - A Personal Perspective (SO-ERY 116, 1993, 3-31) • Kolaitis P., Väänänen J.: Generalized Quantifiers and Pebble Games on Finite Structures (*Annals of Pure and Applied Logic* 74, 1995, 23-75) • Gottlob G.: Relativized Logspace and Generalized Quantifiers Over Finite Ordered Sets (*Journal of Symbolic Logic*, 1996 (to appear))
- [69] Hájek P., Havránek T.: Mechanizing Hypothesis Formation - *Mathematical Foundations of a General Theory*, Springer-Verlag, Berlin, 1978, 396
Cited: • J. Ivánek: Minimum Knowledge Base Search from Categorical Data (Proceedings of the 3rd Workshop on Uncertainty Processing in Expert Systems, 1994, 77-86) • Juhos A.: Can Missing Information Be Also Useful? (*Analogical and Inductive Inference, Lect.N.Comp.Sci* 265, 88-104) • Holeňa M.: Exploratory Data Processing Using a Fuzzy Generalization of the GUHA Approach. (Applied Decision Technologies. *Fuzzy Logic*, 1995, 139-142, Unicom Seminars, London) • Gottlob G.: Relativized Logspace and Generalized Quantifiers Over Finite Ordered Sets (*Journal of Symbolic Logic*, 1996 (to appear))
- [70] Hájek P.: On Partially Conservative Extensions of Arithmetics. — In: *Logic Colloquium '78*, North-Holland Pub., 1979, 225-234
Cited: • Verbrugge R.: Feasible Interpretability (ITLI Prepublication Series for Math. Logic NL-91-11, 1992, University of Amsterdam) • Lindström P.: The Arithmetization of Metamathematics and Some of Its Applications, 1995, Univ. of Göteborg)
- [71] Hájek P.: Arithmetical Interpretations of Dynamic Logic. — *Journal of Symbolic Logic*, 48 (1983), 704-713
Cited: • Beklemishev L.D.: Independent Enumerations of Theories and Recursive Progressions (*Siberian Mathematical Journal* 33, 1992, 760-783)

- [72] Hájek P.: On a New Notion of Partial Conservativity. — In: *Computation and Proof Theory*, Vol. 2, 1984, 217-232
Cited: • Verbrugge R., Visser A.: A Small Reflection Principle for Bounded Arithmetic (*Journal of Symbolic Logic* 59, 1994, 785-812) • Lindström P.: The Arithmetization of Metamathematics and Some of Its Applications, 1995, Univ. of Göteborg)
- [73] Hájek P.: A New Generation of the GUHA Procedure ASSOC. — In: *COMPSTAT '84*, Physica Verlag, Wien, 1984, 360-365
Cited: • Holeňa M.: Exploratory Data Processing Using a Fuzzy Generalization of the GUHA Approach. (*Applied Decision Technologies. Fuzzy Logic*, 1995, 139-142, Unicom Seminars, London)
- [74] Hájek P.: Combining Functions for Certainty Degrees in Consulting Systems. — *International Journal of Man-Machine Studies*, 22 (1985), 59-67
Cited: • Johnston M.D., Adorf H.M.: Scheduling with Neural Networks - the Case of the Hubble Space Telescope (*Computers & Operations Research* 19, 1992, 209-240) • Kashyap R.L., Chang L.W.: Study of Interval Belief Combination (*Journal of Intelligent & Robotic System* 7, 1993, 1-13) • Todd B.S., Stamper R., Macpherson P.: A Probabilistic Rule-Based Expert-System (*International Journal of Bio-Medical Computing* 33, 1993, 129-148) • Daniel M.: Dempsterova pologrupa a práce s nejstotou v pravidlově orientovaných expertních systémech (Kandidátská disertační práce, 1993, ICS AS CR, Prague) • Ivánek J.: Minimum Knowledge Base Search from Categorical Data (*Proceedings of the 3rd Workshop on Uncertainty Processing in Expert Systems*, 1994, 77-86) • Todd B.S., Stamper R., Macpherson P.: The Design and Construction of a Medical Simulation-Model (*Computer Methods and Programs in Biomedicine* 42, 1994, 77-91) • Burnell L.J., Talbot S.E.: Incorporating Probabilistic Reasoning in a Reactive Program Debugging System (*IEEE Expert-Intelligent Systems & Their Applications* 9, 1994, 15-20) • Turksen I.B., Tian Y.: 2-Level Tree-Search in Fuzzy Expert-Systems (*IEEE Transactions on Systems Man and Cybernetics* 25, 1995, 555-568)
- [75] Hájek P., Paris J.: Combinatorial Principles Concerning Approximation of Functions. — *Archiv für Mathematische Logik und Grundlagenforschung*, 26 (1986), 13-28
Cited: • Ratajczyk Z.: Subsystems of True Arithmetic and Hierarchies of Functions (*Annals of Pure and Applied Logic* 64, 1993, 95-152)
- [76] Hájek P.: A Simple Dynamic Logic. — *Theor. Comp. Sci.*, 46 (1986), 239-259
Cited: • Biro B., Sain I.: Peano Arithmetic as Aximatization of the Time Frame in Logics of Programs and in Dynamic Logics (*Annals of Pure and Applied Logic* 63, 1993, 201-225)
- [77] Hájek P.: Some Conservativeness Results for Non-Standard Dynamic Logic. — In: *Proceedings of Conference on Algebra, Combinatorics and Logic in Computer Science*. (Ed.: Demetrovics), North-Holland, Amsterdam, 1986, 443-449
Cited: • Sain A.: Temporal Logics Need Their Clocks (*Theoretical Computer Science* 95, 1992, 75-95) • Biro B., Sain I.: Peano Arithmetic as Aximatization of the Time Frame in Logics of Programs and in Dynamic Logics (*Annals of Pure and Applied Logic* 63, 1993, 201-225)
- [78] Hájek P., Hájková M.: The Expert System Shell EQUANT-PC: Philosophy, Structure and Implementation. — *Computational Statistics Quarterly*, 5 (1990), 4, 261-267
Cited: • Daniel M.: More on Automorphisms of Dempster's Semigroup (*Proceedings of the 3rd Workshop on Uncertainty Processing in Expert Systems*, 1994, 55-69) • Daniel M.: Dempsterova pologrupa a práce s nejstotou v pravidlově orientovaných expertních systémech (Kandidátská disertační práce, 1993, ICS AS CR, Prague) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (IPMU. Information Processing and Management of Uncertainty In Knowledge-Based Systems I, 1994, 71-76, Cité Internationale Universitaire, 1994) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Technical Report; V-629, 1995, 15, ICS AS CR, Prague) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (*Advances in Intelligent Computing - IPMU'94*, 1995, 51-61, Springer-Verlag, Berlin) • Daniel M.: Algebraic Approach to Dempster-Shafer Theory.

(Extended Abstract) (Building Intelligent Systems. Technical Report; LISP-9508, 1995, 4-6, LISP, Dept. of Information and Knowledge Engineering, Prague)

- [79] Hájek P., Montagna F.: The Logic of Pi-1 Conservativity. — *Archive for Mathematical Logic*, 30 (1990), 113-123
Cited: • Visser A.: An Inside View of Exp - Or, the Closed Fragment of the Provability Logic of I-Delta-O(Omega-1 with a Propositional Constant for Exp) (*Journal of Symbolic Logic* 57, 1992, 131-165) • Wisser A.: The Formalization of Interpretability (*Stud.Logica* 50, 1991, 81-103) • Japaridze G.: A Simple Proof of Arithmetical Completeness for Pi-1 Conservativity Logic (*Notre Dame Journal of Symbolic Logic* 35, 1994, 346-354)
- [80] Hájek P., Valdés J.: Algebraic Foundations of Uncertainty Processing in Rule-based Expert Systems (group-theoretic approach). — *Computers and Artificial Intelligence*, 9 (1990), 325-344
Cited: • Daniel M.: Dempsterova pologrupa a práce s nejstotou v pravidlově orientovaných expertních systémech (Kandidátská disertační práce, 1993, ICS AS CR, Prague) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (IPMU. Information Processing and Management of Uncertainty In Knowledge-Based Systems I, 1994, 71-76, Cité Internationale Universitaire, 1994) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Technical Report; V-629, 1995, 15, ICS AS CR, Prague) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Advances in Intelligent Computing - IPMU'94, 1995, 51-61, Springer-Verlag, Berlin)
- [81] Hájek P., Švejdar V.: A Note on the Normal Form of Closed Formulas of Interpretability Logic. — *Studia Logica*, 50 (1991), 25-28
Cited: • Visser A.: An Inside View of Exp - Or, the Closed Fragment of the Provability Logic of I-Delta-O(Omega-1 with a Propositional Constant for Exp) (*Journal of Symbolic Logic* 57, 1992, 131-165)
- [82] Hájek P., Valdés J.: A Generalized Algebraic Approach to Uncertainty Processing in Rule-based Expert Systems (Dempsteroids). — *Computers and Artificial Intelligence*, 10 (1991), 29-42
Cited: • Daniel M.: Dempsterova pologrupa a práce s nejstotou v pravidlově orientovaných expertních systémech (Kandidátská disertační práce, 1993, ICS AS CR, Prague) • Daniel M.: More on Automorphisms of Dempster's Semigroup (Proceedings of the 3rd Workshop on Uncertainty Processing in Expert Systems, 1994, 55-69) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (IPMU. Information Processing and Management of Uncertainty In Knowledge-Based Systems I, 1994, 71-76, Cité Internationale Universitaire, 1994) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Technical Report; V-629, 1995, 15, ICS AS CR, Prague) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Advances in Intelligent Computing - IPMU'94, 1995, 51-61, Springer-Verlag, Berlin)
- [83] Hájek P.: Deriving Dempster's Rule. — In: IPMU'92 Proceedings. International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems., Universitat de les Illes Balears, Valldemossa, 1992, 73-75
Cited: • Klawon F., Smets P.: The Dynamic of Belief in Transferable Belief Model (Uncertainty in AI - VIII, 1992, 130-137) • Daniel M.: More on Automorphisms of Dempster's Semigroup (Proceedings of the 3rd Workshop on Uncertainty Processing in Expert Systems, 1994, 54-69) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (IPMU. Information Processing and Management of Uncertainty In Knowledge-Based Systems I, 1994, 71-76, Cité Internationale Universitaire, 1994) • Smets P.: The Axiomatic Justification of the Transferable Belief Model (Technical Report TR/IRIDIA/95-8, 1995, Bruxelles)
- [84] Hájek P., Havránek T., Jiroušek R.: Uncertain Information Processing in Expert Systems, CRC Press, Boca Raton, 1992, 285
Cited: • Daniel M.: Dempsterova pologrupa a práce s nejstotou v pravidlově orientovaných expertních systémech (Kandidátská disertační práce, 1993, ICS AS CR, Prague) • Daniel M.: More on Automorphisms of Dempster's Semigroup (Proceedings of the 3rd Workshop on Uncertainty Processing

- in Expert Systems, 1994, 55-69) • Matúš F.: On the Maximum-Entropy Extensions of Probability Measures over Undirected Graphs (Proceedings of the 3rd Workshop on Uncertainty Processing in Expert Systems, 1994, 181-198) • Strohmeier B.: Knowledge Integration in Spite of Inconsistent Experts (Proceedings of the 3rd Workshop on Uncertainty Processing in Expert System, 1994, 253-267) • Mareš M.: Computation Over Fuzzy Quantities, 1994, CRC Press,) • Paris J.B., Vencovska A., Wilmers G.M.: A Natural Prior Probability-Distribution Derived from the Propositional Calculus (Annals of Pure and Applied Logic 70, 1994, 243-285) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (IPMU. Information Processing and Management of Uncertainty In Knowledge-Based Systems I, 1994, 71-76, Cité Internationale Universitaire, 1994) • Xu L.D.: Case-Based Reasoning for AIDS Initial Assessment (Knowledge-Based Systems 8, 1995, 32-38) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Technical Report; V-629, 1995, 15, ICS AS CR, Prague) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Advances in Intelligent Computing - IPMU'94, 1995, 51-61, Springer-Verlag, Berlin) • Daniel M.: Algebraic Approach to Dempster-Shafer Theory. (Extended Abstract) (Building Intelligent Systems. Technical Report; LISP-9508, 1995, 4-6, LISP, Dept. of Information and Knowledge Engineering, Prague)
- [85] Hájek P., Pudlák P.: *Metamathematics of First-Order Arithmetic: Perspectives in Mathematical Logic*, Springer-Verlag, Berlin, 1993, 460
 Cited: • Krajčec J.: Fragments of Bounded Arithmetic and Bounded Query Classes (Transaction of The American Mathematical Society 338, 1993, 587-598) • Verbrugge R., Visser A.: A Small Reflection Principle for Bounded Arithmetic (Journal of Symbolic Logic 59, 1994, 785-812) • Buss S.R., Krajčec J.: An Application of Boolean Complexity to Separation Problems in Bounded Arithmetic (Proceedings of the London Mathematical Society 69, 1994, 1-21) • Lindström P.: The Arithmetization of Metamathematics and Some of Its Applications, 1995, Univ. of Göteborg) • Adamowicz Z.: A Contribution to the End-Extension Problem and the $\Pi(1)$ Conservativeness Problem (???) 61, 1993, 3-48) • Shavrukov V.: Interpreting Reflexive Theories in Finitely Many Axioms (Logic Group Preprint Series No. 138, 1995, University Utrecht) • Ignjatovic A.: Delineating Classes of Computational-Complexity via 2nd-Order Theories with Weak Set Existence Principles. 1. (Journal of Symbolic Logic 60, 1995, 103-121) • Takeuti G.: Grzegorczyk Hierarchy and Iep -Sigma (1) (Journal of Symbolic Logic 59, 1994, 1274-1284) • Sureson C.: Np -Not-Equal- Co - Np and Models of Arithmetic (Theoretical Computer Science 147, 1995, 55-67) • Beklemishev L.D.: Induction Rules, Reflection Principles, and probably Recursive Functions (Logic Group Preprint Series No. 146, 1995, Utrecht Research Institute for Philosophy, Utrecht) • Ferreira F.: On End-extensions of models of $-exp$ (Math. Logic Quarterly 42, 1996, 1-18) • Shavrukov V. Yu.: Isomorphisms of Diagonalizable Algebras (Logic Group Preprint Series No. 158, 1996, 7, Utrecht Research Institute of Philosophy, Utrecht)
- [86] Hájek P., Harmancová D.: *A Comparative Fuzzy Modal Logic (Fuzzy Logic in Artificial Intelligence)*. — In: FLAI'93, Springer-Verlag, Berlin, 1993, 27-34
 Cited: • Mironov A. M.: Logics with Fuzzy Modalities (Proceedings of FAPT'95, 1995, 165-182, World Scientific, Singapore)
- [87] Hájek P.: *Deriving Dempster's Rule*. — In: *Uncertainty in Intelligent Systems*. (Ed.: Bouchon-Meunier B., Valverde L., Yager R.R.), North Holland, Amsterdam, 1993, 75-83
 Cited: • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Technical Report; V-629, 1995, 15, ICS AS CR, Prague) • Daniel M.: Algebraic Structures Related to Dempster-Shafer Theory (Advances in Intelligent Computing - IPMU'94, 1995, 51-61, Springer-Verlag, Berlin) • Daniel M.: Algebraic Approach to Dempster-Shafer Theory. (Extended Abstract) (Building Intelligent Systems. Technical Report; LISP-9508, 1995, 4-6, LISP, Dept. of Information and Knowledge Engineering, Prague)
- [88] Hájek P., Harmancová D., Esteva F., García P., Godo L.: *On Modal Logics of Qualitative Possibility in a Fuzzy Environment*. — In: *Uncertainty in Artificial Intelligence. Proceedings of the 10. Conference*. (Ed.: Mantaras de L., Poole D.), Morgan-Kaufmann, San Francisco, 1994, 278-285

- Cited: • Mironov A. M.: Logics with Fuzzy Modalities (Proceedings of FAPT'95, 1995, 165-182, World Scientific, Singapore)
- [89] Hájek P., Sochorová A., Zvárová J.: GUHA for Personal Computers. — Computational Statistics & Data Analysis, 19 (1995), -, 149-153
Cited: • Holeňa M.: Exploratory Data Processing Using a Fuzzy Generalization of the GUHA Approach. (Applied Decision Technologies. Fuzzy Logic, 1995, 139-142, Unicom Seminars, London)
- [90] Hájek P., Harmancová D., Verbrugge R.: A Qualitative Fuzzy Possibilistic Logic. — International Journal of Approximate Reasoning, 12 (1995), 1, 1-19
Cited: • Mironov A. M.: Logics with Fuzzy Modalities (Proceedings of FAPT'95, 1995, 165-182, World Scientific, Singapore)
- [91] Hájek P.: Der Mathematiker and die Frage der Existenz Gottes. — In: Wahrheit und Beweisbarkeit-Kurt Gödels Leben und Werk. (Ed.: Schimanowich W., Buldt B., Köhler E., Weibel P.) — IN PRINT
Cited: • Feferman S. et al. (Eds.): Kurt Gödel - Collected Works. Vol. III, 1995, Oxford University Press, Oxford)
- [92] Hájková M., Janoušek V.: EQUANT PC verze 1.0. Manuál diagnostického expertního systému, ICS AS CR, Prague, 1991, 15 (Výzkumná zpráva ; V-487)
Cited: • Daniel M.: Dempsterova pologrupa a práce s nejstotou v pravidlově orientovaných expertních systémech (Kandidátská disertační práce, 1993, ICS AS CR, Prague)
- [93] Hlaváčková K.: RBF sítě a samoorganizace Kohonenova typu, ICS AS CR, Prague, 1992, 76
Cited: • Tučková J.: Quantification vectorielle du signal parole par un réseau de Kohonen, 1993, 163, École Polytechnique Fédérale, Lausanne,) • Vondrášek F.: Rozpoznávání řečového signálu pomocí neuronové sítě Kohonenova typu (Diplomová práce, 1994, 1-125, FEL ČVUT, Prague)
- [94] Hlaváčková K., Neruda R.: Radial Basis Function Networks. — Neural Network World, 3 (1993), 1, 93-101
Cited: • Řízek S., Frolov A.A.: Differential Control by Neural Networks (Neural Network World 4, 1994, 493-508) • Sosík P.: RBF Networks with Quasi-Interpolating Functions (Proceedings of the 6th Microcomputer School Neural Networks Theory and Applications, 1994, 151-157)
- [95] Hlaváčková K., Verleysen M.: An Optimized RBF Network for Approximation of Functions. — In: ESANN'94. European Symposium on Artificial Neural Networks, D-Facto, Brussels, 1994, 175-180
Cited: • Drouot P., Touzet C., Le Goc M.: Artificial Neural Networks for Data Validation in Blast Furnace Monitoring (Neural Networks & Their Applications, 1992, -, Marseilles)
- [96] Hořejš J.: A View on Neural Network Paradigms Development - Tutorial. — Neural Network World, 1 (1991), 1, 61-64
Cited: • Wiedermann J.: Complexity Issues in Discrete Neurocomputing (Neural network World 4, 1994, 99-119) • Sosík P.: RBF Networks with Quasi-Interpolating Functions (Proceedings of the 6th Microcomputer School Neural Networks Theory and Applications, 1994, 151-157)
- [97] Jiřina M.: Binary Neural Net: A Logical Network Modeling Some Features of Neural Nets. — Neural Network World, 1 (1991), 3, 163-170
Cited: • Guštin V., Virant J.: Fuzzy Boolean Neural Classifier (Neural Network World 4, 1994, 231-240)
- [98] Jiřina M.: Control Strategy in Binary Neural Net. — In: NEURONET'93, ICS AS CR, Prague, 1993, 77-84
Cited: • Řízek S., Frolov A.A.: Differential Control by Neural Networks (Neural Network World 4, 1994, 493-507)
- [99] Kramosil I., Michalek J.: Fuzzy Metrics and Statistical Metric Spaces. — Kybernetika, 11 (1975), 5, 336-344
Cited: • Mashour As. (Fuz. Sets Syst. 45, 1992, 107) • Fang J.X. (Fuz. Sets Syst. 46, 1992, 107)

- [100] Kramosil I.: Uncertainty Processing under a Nonstandard Interpretation of Probability Values, ÚTIA AV ČSR, Prague, 1991, 46 (Technical Report ; V-1707)
Cited: : On Set Valued Measures (Informatika 4, 1993, 21)
- [101] Kufudaki O., Hořejš J.: PAB: Parameters Adapting Back-Propagation. — Neural Network World, 1 (1991), 5, 267-274
Cited: • Šíma J.: Generalized Back Propagation for Training Pattern Derivatives (Neural Network World 4, 1994, 91-98) • Sperduti A., Starita, A.: Speed Up Learning and Network Optimization with Extended Back Propagation (Neural Networks 6, 1993, 365-383)
- [102] Kůrková V.: Kolmogorov's Theorem is Relevant. — Neural Computation, 3 (1991), 4, 617-622
Cited: • Bulsari A.: Some Analytical Solutions to the General Problem for Feedforward Neural Networks (Neural Networks 6, 1993, 991-996) • Katsuura H., Sprecher D. A.: Computational Aspects of Kolmogorov's Superposition Theorem (Neural Networks 7, 1994, 455-461) • Hornik K.: Functional Approximation and Learning in Artificial Neural Networks (Neural Network World 1, 1991, 257-266) • Lin J.N., Unbehauen R.: On the Realization of a Kolmogorov Network (Neural Computation 5, 1993, 18-20) • Nakamura M., Mines R., Kreinovich V.: Guaranteed Intervals for Kolmogorov's Theorem (and their possible relation to neural networks) (Interval Computations 3, 1993, 183-199) • Buckley J.J., Hayashi Y.: Numerical Relationships Between Neural Networks, Continuous-Functions, and Fuzzy-Systems (Fuzzy Sets and Systems 60, 1993, 1-8) • Buckley J.J., Hayashi Y.: Can Fuzzy Neural Nets Approximate Continuous Fuzzy Functions (Fuzzy Sets and Systems 61, 1994, 43-51) • Buckley J.J., Hayashi Y.: Hybrid Neural Nets Can Be Fuzzy Controllers and Fuzzy Expert-Systems (Fuzzy Sets and Systems 60, 1993, 135-142) • Hunt K.J., Sbarbaro D., Zbihowski R., Cauthrop P.J.: Neural Networks for Control Systems (Automatika 28, 1992, 1083-1112) • Ito Y.: Approximation Capability of Layered Neural Networks with Sigmoid Units on Two Layers (Neural Computational 6, 1994, 1233-1243) • Kovačec, A., Ribiero, B.: Kolmogorov's Theorem: From an Algebraic Equations and Nomography to Neural Networks (Proceedings of the International Conference on Artificial Neural Networks and Genetic Algorithms, 1993, Springer, Wien) • Ripley B.D.: Pattern Recognition and Neural Networks, 1996, Cambridge Univ. Press, Cambridge) • Buckley J.J., Hayashi Y.: Neural Nets for Fuzzy-Systems (Fuzzy Sets and Systems 71, 1995, 265-276)
- [103] Kůrková V.: Universal Approximation Using Feedforward Neural Networks with Gaussian Bar Units. — In: Proceedings of ECAI'92. (Ed.: Neumann B.), Wiley and Sons, Chichester, 1992, 193-197
Cited: • Sosík, P.: RBF Networks with Quasi-Interpolating Functions (Proceedings of the 6. Microcomputer School: Neural Network Theory and Applications, 1994, 151-154) • Gegout C., Girau B., Rossi F. (NeuroCOLT Technical Report NC-TR-95-041, 1995, Egham, Surrey (GB))
- [104] Kůrková V.: Kolmogorov's Theorem and Multilayer Neural Networks. — Neural Networks, 5 (1992), 3, 501-506
Cited: • Katsuura H., Sprecher D.A.: Computational Aspect of Kolmogorov's Superposition Theorem (Neural Networks 7, 1994, 455-461) • Hornik K.: Functional Approximation and Learning in Artificial Neural Networks (Neural Network World 1, 1991, 257-266) • Sprecher D.A.: A Universal Mapping for Kolmogorov's Superposition Theorem (Neural Networks 6, 1993, 1089-1094) • Barron A.: Universal approximation bounds for Superposition of a Sigmoidal Function (IEEE Transactions on Information Theory 39, 1993, 930-945) • Bulsari A.: Some Analytical Solutions to the General Problem for Feedforward Neural Networks (Neural Networks 6, 1993, 991-996) • Nakamura M., Mines M., Kreinovich V.: Guaranteed Intervals for Kolmogorov's Theorem (and their possible relation to neural networks) (Interval Computations 3, 1993, 183-199) • Řízek S., Frolov A.: Differential Control by Neural Networks (Neural Network World 4, 1994, 493-508) • Buckley J.J., Hayashi Y.: Can Fuzzy Neural Nets Approximate Continuous Fuzzy Functions (Fuzzy Sets and Systems 61, 1994, 43-51) • Buckley J.J., Hayashi Y.: Hybrid Neural Nets Can Be Fuzzy Controllers and Fuzzy Expert-Systems (Fuzzy Sets and Systems 60, 1993, 135-142) • Ripley B. D.: Neural Networks and Related Methods for Classification (Journal of the Royal Statistical Society Series B - Methodological 56, 1994, 409-437) • Buckley J.J., Hayashi Y.: Numerical Relationships Between Neural Networks, Continuous-Functions,

- and Fuzzy-Systems (Fuzzy Sets and Systems 60, 1993, 1-8) • Ito Y.: Approximation Capability of Layered Neural Networks with Sigmoid Units on Two Layers (Neural Computational 6, 1994, 1233-1243) • Gupta, M.M., Rao, D.H.: Functional Approximation Using Dynamic Neural Processor (Neural Network World 5, 1994, 573-592) • Bitzan, P., Šmejkalová, J., Kučera, M.: A Neural Network with Switching Units (Neural Network World 5, 1994, 515-526) • Davies, P.C.: Design Issues in Neural Network Development (Neuro Vest Journal 5, 1994, 21-25) • Sumpter B.G., Getino C., Noid D.W.: Theory and Applications of Neural Computing in Chemical Science (Annual Review of Physical Chemistry 45, 1994, 439-481) • Nees M.: Approximative versions of Kolmogorov's ... (J. Comput. Appl. Math. 54, 1994, 239-250) • Holeňa M.: Wahl der Architektur eines neuronalen Netzes mittels der Theorie der Verbaende. (Fuzzy Logik. Theorie und Praxis, 1994, 365-373, Springer-Verlag, Berlin)
- Ripley B.D.: Pattern Recognition and Neural Networks, 1996, Cambridge Univ.Press, Cambridge) • Buckley J.J., Hayashi Y.: Neural Nets for Fuzzy-Systems (Fuzzy Sets and Systems 71, 1995, 265-276) • Kim K., Bartlett E.B.: Error Estimation by Series Association for Neural Network Systems (Neural Computation 7, 1995, 799-808)
- [105] Kůrková V., Hlaváčková K.: Uniform Approximation by the KBF Networks. — In: NEURONET'93, ICS AS CR, Prague, 1993, 96-102
Cited: • Duch W., Diercksen G.H.F.: Neural Networks as Tools to Solve Problems in Physics and Chemistry (Computer Physics Communications 82, 1994, 91-103) • Sumpter B.G., Getino C., Noid D.W.: Theory and Applications of Neural Computing in Chemical (Annual Review of Physical Chemistry 45, 1994, 439-481) • Duch W., Diercksen G.H.F.: Feature Space Mapping as a Universal Adaptive System (Computer Physics Communications 87, 1995, 341-371)
- [106] Kůrková V., Kainen P.: Functionally Equivalent Feedforward Neural Networks. — Neural Computation, 6 (1994), 3, 543-558
Cited: • Neruda Roman: Functional Equivalence and Genetic Learning of RBF Networks (Artificial Neural Nets and Genetic Algorithms. Proceedings of the International Conference., 1995, 53-56, Springer-Verlag, Wien)
- [107] Lefmann H., Savický P.: Some Typical Properties of Large AND/OR Boolean Formulas. — In: Mathematical Foundations of Computer Science 1995. 20. International Symposium. Proceedings. (Ed.: Wiedermann J., Hájek P.), Springer, Berlin, 1995, 237-246
Cited: • Woods A.R.: Colouring Rules for Finite Trees, and Probabilities of Monadic Second Order Sentences. (Preprint, 1996)
- [108] Lukšan L.: SPONA - Soubor programů pro optimalizaci a nelineární aproximaci. Stručný popis první verze, CVS ČSAV, Prague, 1976, 21 (Výzkumná zpráva ; V-3)
Cited: • Meloun M., Militký J.: Statistické zpracování experimentálních dat, 1994, 839, Plus, Prague)
- [109] Lukšan L.: Conjugate Gradient Algorithms for Conic Functions. — Aplikace matematiky, 31 (1986), 427-440
Cited: • N. Y. Deng, Z. F. LI: Nonquadratic Model Methods in Unconstrained Optimization (Algorithms for Continuous Optimization. The State of the Art (ed.: E. Spedicato), NATO ASI, Series Math. and Physical Sciences, Kluva Academic London 434, 1994)
- [110] Lukšan L.: Conjugate Direction Algorithms For Extended Conic Functions. — Kybernetika, 22 (1986), 1, 31-46
Cited: • N. Y. Deng, Z. F. LI: Nonquadratic Model Methods in Unconstrained Optimization (Algorithms for Continuous Optimization. The State of the Art (ed.: E. Spedicato), NATO ASI, Series Math. and Physical Sciences, Kluva Academic London 434, 1994)
- [111] Lukšan L.: Metody s proměnnou metrikou, nepodmíněná minimalizace, Academia, Prague, 1990, 352
Cited: • Kvasnička V., Sklenák S., Pospíchal J.: Neural Networks in Chemistry. 1.Theory, Software and Hardware (Chemické Listy 87, 1993, 79-85) • Spedicato E., Zhao J.: Explicit General Solution

of the Quasi-Newton equation with Sparsity and Symmetry (Optimization Methods and Software 2, 1993, 311-319)

- [112] Lukšan L.: Computational Experience with Improved Variable Metric Methods for Unconstrained Minimization. — *Kybernetika*, 26 (1990), 5, 415-431
Cited: • Contreras M., Tapia R. A.: Sizing the BFGS and DFP Updates - Numerical Study (*Journal of Optimization Theory and Applications* 78, 1993, 93-108) • Khoda K.M., Liu Y., Storey C.: Generalized Polak-Ribiere Algorithm (*Journal Optimization Theory and Applications* 75, 1992, 345-354) • M. Al-Baali: An Efficient Class of Switching Type Algorithms in the Broyden Family (*Optimization Methods and Software* 4, 1994, 29-46) • Al-Baali M.: Anti-self Scaling Quasi-Newton Methods for Unconstrained Optimization (Technical Report: Università' della Calabria, 1991) • Al-Baali M.: An Efficient Class of Quasi-Newton Algorithms in the Broyden Family (Preprint: Università' della Calabria, 1992) • Al-Baali M.: Analysis of a Family of Self-Scaling Quasi-Newton Methods (Technical Report: United Arab Emirates University, 1993) • Al-Baali M., Grandinetti L.: On the Initial Scaling of the Broyden Class of Formulae for Quasi-Newton Optimization Methods (Preprint: Università' della Dipartimento di Elettronica Informatica e Sistemistica, 1993) • Hu Y.F., Storey C.: On Optimally and Near Optimally Conditioned Quasi-Newton Updates (Technical Report A-141: Loughborough University of Technology, 1991) • Hu Y.F., Storey C.: A Family of Optimally Conditioned Quasi-Newton Updates for Unconstrained Optimization (Preprint: Loughborough University of Technology, 1992) • Hu Y.F., Storey C.: Family of Optimally Conditioned Quasi-Newton Updates for Unconstrained Optimization (*Journal of Optimization Theory and Applications* 83, 1994, 421)
- [113] Lukšan L., Šiška M., Tůma M.: Systém UFO - Uživatelský popis (verze 1990), SVT ČSAV, Prague, 1990, 84 (Výzkumná zpráva ; V-485)
Cited: • Sopoušek J., Kroupa A., Dojiva R., Vřešťál J.: The Pd-Package for Multicomponent Isobaric Phase-Equilibrium Calculations (*Calphad-Computer Coupling of Phase Diagrams and Thermochemistry* 17, 1993, 229-235)
- [114] Lukšan L.: Computational Experience with Improved Conjugate Gradient Methods for Unconstrained Minimization, ICS AS CR, Prague, 1991, 15 (Technical Report ; V-488)
Cited: • Nocedal J.: Theory of Algorithms for Unconstrained Optimization (*Acta Numerica*, 1991)
- [115] Lukšan L.: On Variationally Derived Scaling and Preconvex Variable Metric Updates, ICS AS CR, Prague, 1991, 11 (Technical Report ; V-496)
Cited: • Nocedal J.: Theory of Algorithms for Unconstrained Optimization (*Acta Numerica*, 1991)
- [116] Lukšan L.: Computational Experience With Known Variable Metric Updates. — *Journal of Optimization Theory and Applications*, 83 (1994), 1, 27-47
Cited: • Fletcher, R.: An Overview of Unconstrained Optimization (*Algorithms for Continuous Optimization*. Ed. E.Spedicato, 1994, 109-143, Kluwer Academic Publishers, Dordrecht)
- [117] Nedoma J., Stehlík J.: Mathematical Simulation of Great Human Joints and Optimal Design of their Substitutes. Part I. Biomechanics, Construction and Tribology, SVT ČSAV, Prague, 1989, 91 (Výzkumná zpráva ; V-406)
Cited: • Bartoš M., Kestřánek Z.: Numerical Solution of the Contact Problem. Application to a Simple Model of the Human Hip Joint (*Journal of Computational and Applied Mathematics* 63, 1995, 439-447)
- [118] Nedoma J.: Mathematical Simulation of Function of Great Human Joints and Optimal Design of Their Substitutes. Part II. Mathematical Analysis of the Problem, SVT ČSAV, Prague, 1989, 180 (Výzkumná zpráva ; V-407)
Cited: • Bartoš M., Kestřánek Z.: Numerical Solution of the Contact Problem. Application to a Simple Model of the Human Hip Joint (*Journal of Computational and Applied Mathematics* 63, 1995, 439-447)

- [119] Nedoma J.: Mathematical Modelling in Biomechanics: Bone and Vascular-Implant Systems. [Habilitation Thesis], ICS AS CR, Prague, 1993, 220
Cited: • Bartoš M., Kestřánek Z.: Numerical Solution of the Contact Problem. Application to a Simple Model of the Human Hip Joint (Journal of Computational and Applied Mathematics 63, 1995, 439-447)
- [120] Nedoma J.: Finite-Element Analysis of Contact Problems in Thermoelasticity. The Semi-Coercive Case. — Journal of Computational and Applied Mathematics, 50 (1994), 1/2/3, 411-423
Cited: • Gawecki A., Kuczma M.S.: Elastic-Plastic Unilateral Contact Problems for Slackened Systems (Journal of Computational and Applied Mathematics 63, 1995, 313-323) • Bartoš M., Kestřánek Z.: Numerical Solution of the Contact Problem. Application to a Simple Model of the Human Hip Joint (Journal of Computational and Applied Mathematics 63, 1995, 439-447)
- [121] Nedoma J., Stehlík J.: Mathematical Simulation of Osteotomy, Numerical Analysis and Results. — Journal of Computational and Applied Mathematics, 63 (1995), 1/3, 421-438
Cited: • Bartoš M., Kestřánek Z.: Numerical Solution of the Contact Problem. Application to a Simple Model of the Human Hip Joint (Journal of Computational and Applied Mathematics 63, 1995, 439-447)
- [122] Novák M.: Neuronové sítě a neuropočítače, SENZO, Prague, 1992, 190
Cited: • Jakuš V.: Utilization of Artificial Intelligence in Chemistry (Chemické listy 87, 1993, 262-279)
- [123] Paluš M., Dvořák I., David I.: Remarks on Spatial and Temporal Dynamics of EEG. — In: Mathematical Approaches to Brain Functioning Diagnostics. (Ed.: Dvořák I., Holden A. V.), Manchester University Press, Manchester, 1991, 369-386
Cited: • Prichard D., Theiler J.: Generating Surrogate Data for Time-Series with Several Simultaneously Measured Variables (Physical Review Letters 73, 1994, 951-954) • Ehlers C.L., Havstad J.W., Schuckit M.A.: EEG Dimension in Sons of Alcoholics (Alcoholism-Clinical and Experimental Research 19, 1995, 992-998)
- [124] Paluš M., Dvořák I., David I.: Spatio-Temporal Dynamics of Human EEG. — Physica (A), 185 (1992), 433-438
Cited: • Pritchard W.S., Duke D.W., Coburn K.L., Tucker K.A., Jann M.W., Hostetler R.M.: EEG-Based, Neural-Net Predictive Classification of Alzheimers-Disease Versus Control Subjects Is Augmented by Nonlinear EEG Measures (Electroencephalography and Clinical Neurophysiology 91, 1994, 118-130) • Prichard D., Theiler J.: Generating Surrogate Data for Time-Series with Several Simultaneously Measured Variables (Physical Review Letters 73, 1994, 951-954) • Pritchard W.S., Duke D.W.: Measuring Chaos in the Brain - A Tutorial Review of EEG Dimension Estimation (Brain and Cognition 27, 1995, 353-397)
- [125] Paluš M., Dvořák I.: Singular-Value Decomposition in Attractor Reconstruction: Pitfalls and Precautions. — Physica (D), 55 (1992), 221-234
Cited: • Gouesbet G., Letellier C.: Global Vector-Field Reconstruction by Using a Multivariate Polynomial L(2) Approximation on Nets (Physical Review E 49, 1994, 4955-4972) • Dong D., Moavoy T.J.: Nonlinear Principal Component Analysis - Based on Principal Curves and Neural Networks (Computers & Chemical Engineering 20, 1996, 65-78) • Pilgram B., Schappacher W., Loscher W.N., Pfurtscheller G.: Application of the Correlation Integral to Respiratory Data of Infants During REM-Sleep (Biological Cybernetics 72, 1995, 543-551) • Letellier C., Lesceller L., Dutertre P., Gouesbet G., Fei Z., Hudson J.L.: Topological Characterization and Global Vector Field Reconstruction of an Experimental Electrochemical System (Journal of Physical Chemistry 99, 1995, 7016-7027) • Uhl C., Friedrich R., Haken H.: Analysis of Spatiotemporal Signals of Complex-Systems (Physical Review 51, 1995, 3890-3900) • Letellier C., Lesceller L., Marechal E., Dutertre P., Maheu B., Gouesbet G., Fei Z., Hudson J.L.: Global Vector Field Reconstruction from a Chaotic Experimental Signal in Copper Electrodeposition (Physical Review E 51, 1995, 4262-4266)

- [126] Paluš M., Albrecht V., Dvořák I.: Information Theoretic Test for Nonlinearity in Time Series. — *Physics Letters (A)*, 175 (1993), 203-209
Cited: • Prichard D., Theiler J.: Generalized Redundancies for Time-Series Analysis (*Physica D* 84, 1995, 476-493)
- [127] Paluš M.: Identifying and Quantifying Chaos by Using Information-Theoretic Functionals. — In: *Time Series Prediction: Forecasting the Future and Understanding the Past.* (Ed.: Weigend A. S., Gershenfeld N. A.), Addison-Wesley, Reading, 1993, 378-413
Cited: • Prichard D., Theiler J.: Generalized Redundancies for Time-Series Analysis (*Physica D* 84, 1995, 476-493)
- [128] Paluš M.: Testing for Nonlinearity in the EEG. — In: *Nonlinear Dynamical Analysis of the EEG.* (Ed.: Jansen B. H., Brandt M. E.), World Scientific, Singapore, 1993, 100-115
Cited: • Rombouts S.A.R.G., Keunen R.W.M., Stam C.J.: Investigation of Nonlinear Structure in Multichannel EEG (*Physics Letters A* 202, 1995, 352-358) • Roschke J., Fell J., Beckmann P.: Nonlinear-Analysis of Sleep EEG in Depression - Calculation of the Largest Lyapunov Exponent (*European Archives of Psychiatry and Clinical Neuroscience* 245, 1995, 27-35) • Theiler J.: On the Evidence for Low-Dimensional Chaos in an Epileptic Electroencephalogram (*Physics Letters A* 196, 1995, 335-341)
- [129] Paluš M., Novotná D.: Testing for nonlinearity in weather records. — *Physics Letters (A)*, (1994), 193, 67-74
Cited: • Bukkapatnam S.T.S., Lakhtakia A., Kumara S.R.T.: Analysis of Sensor Signals Shows Turning on a Lathe Exhibits Low-Dimensional Chaos (*Physical Review E* 52, 1995, 2375-2387)
- [130] Paluš M.: Testing for Nonlinearity Using Redundancies: Quantitative and Qualitative Aspects. — *Physica (D)*, - (1995), 80, 186-205
Cited: • Kantz H., Schreiber T.: Dimension Estimates and Physiological Data (*Chaos* 5, 1995, 143-154) • Prichard D., Theiler J.: Generalized Redundancies for Time-Series Analysis (*Physica D* 84, 1995, 476-493)
- [131] Paluš M.: Coarse-Grained Entropy Rates for Characterization of Complex Time Series. — IN PRINT — *Physica (D)*
Cited: • Pritchard W.S., Duke D.W.: Measuring Chaos in the Brain - A Tutorial Review of EEG Dimension Estimation (*Brain and Cognition* 27, 1995, 353-397)
- [132] Paluš M.: Nonlinearity in Normal Human EEG: Cycles, Temporal Asymmetry, Nonstationarity and Randomness, Not Chaos. — IN PRINT — *Biological Cybernetics*
Cited: • Pritchard W.S., Duke D.W., Kriebel K.K.: Dimensional Analysis of Resting Human EEG. 2. Surrogate Data Testing Indicates Nonlinearity But Not Low-Dimensional Chaos (*Psychophysiology* 32, 1995, 486-491) • Pritchard W.S., Duke D.W.: Measuring Chaos in the Brain - A Tutorial Review of EEG Dimension Estimation (*Brain and Cognition* 27, 1995, 353-397)
- [133] Pelikán E.: Spectral analysis of ARMA processes by Prony's method. — *Kybernetika*, 20 (1984), 4, 322
Cited: • Osborne M.R., Smyth G.K.: A Modified Prony Algorithm for Exponential Function Fitting (*SIAM Journal of Scientific Computing* 16, 1995, 119-138)
- [134] Pelikán E.: Model vrstvené neuronové sítě typu "zpětného šíření" s adaptivní přenosovou funkcí, SVT ČSAV, Prague, 1989, 40 (Výzkumná zpráva ; V-404)
Cited: • Musílek P.: Application of Neural Networks and Fuzzy Logic in Mobile Robots (Proceedings of the 6-th Microcomputer School Neural Networks Theory and Applications, 1994, 303-314) • Musílek P.: Principles of Autonomous Mobile Robot Control (*Neural Network World* 3, 1993, 249-259)
- [135] Pelikán E., Groot C., Wuertz D.: Power Consumption in West-Bohemia: Improved Forecasts with Decorrelating Connectionist Networks. — *Neural Network World*, 2 (1992), 6, 701-711

- Cited: • Wilpen L. Gorr: Neural Networks in Forecasting: Research Prospective on Neural Network Forecasting (International Journal of Forecasting 10, 1994, 1-4, SCI:ne) • Šebesta V.: Pruning of Neural Networks by Statistical Optimization (Proceedings of the 6th Microcomputer School Neural Networks Theory and Applications, 1994, 209-214, SCI:ne)
- [136] Pelikán E., Šebesta V.: Neural Network Learning Algorithms for Electric Load Forecasting. — In: Applications of Artificial Neural Networks 5, SPIE, Orlando, 1994, 2243-2257
Cited: • Novák M.: Souhrnná zpráva o průběhu a výsledcích řešení grantu GA ČR 101/93/0430 (Výzkumná zpráva V-603, 1994, 15, UIVT AV ČR, Prague)
- [137] Pudlák P., Žák S.: Space Complexity of Computations, 1983 Práce nevyšla tiskem.
Cited: • Meinel C., Waack S.: Separating Complexity Classes Related to Bounded Alternating omega-Branching Programs (Mathematical Systems Theory 28, 1995, 21-40)
- [138] Rohn J.: New Condition Numbers for Matrices and Linear Systems. — Computing, 41 (1989), 167-169
Cited: • Higham D.J.: Condition Numbers and Their Condition Numbers (Linear Algebra and Its Applications 214, 1995, 193-213) • Chandrasekaran S., Ipsen I.C.F.: On the Sensitivity of Solution Components in Linear Systems of Equations (SIAM Journal on Matrix Analysis and Applications 16, 1995, 93-112)
- [139] Rohn J.: Systems of Linear Interval Equations. — Linear Algebra and Its Applications, 126 (1989), 39-78
Cited: • Seif N.P., Hussein S.A., Deif A.S.: The Interval Sylvester Equation. (Computing 52, 1994, 233-244) • Amenta N.: Helly-Type Theorems and Generalized Linear-Programming (Discrete & Computational Geometry 12, 1994, 241-261) • Coxson G.E.: The P-Matrix Problem Is Co-Np-Complete (Mathematical Programming 64, 1994, 173-178) • Shary S.P.: On Optimal Solution of Interval Linear Equations (SIAM Journal on Numerical Analysis 32, 1995, 610-630)
- [140] Rohn J.: On Nonconvexity of the Solution Set of A System of Linear Interval Equations. — BIT, 30 (1989), -, 161-165
Cited: • Alefeld G., Mayer G.: On the Symetrical and Unsymmetrical Solution Det of Interval Systems (SIAM Journal on Matrix Analysis and Applications 16, 1995, 1223-1240)
- [141] Rohn J.: A Short Proof of Finiteness of Murty's Principal Pivoting Algorithm. — Mathematical Programming, 46 (1990), 255-256
Cited: • Fukuda K., Namiki M.: On Extremal Behaviors of Murty Least Index Method (Mathematical Programming 64, 1994, 365-370)
- [142] Rohn J.: Real Eigenvalues of an Interval Matrix with Rank one Radius. — Zeitschrift für Angewandte Mathematik und Mechanik (70), 1990, 562-563
Cited: • Dimarogonas A.D.: Interval-Analysis of Vibrating Systems (Journal of Sound and Vibration 183, 1995, 739-749)
- [143] Rozložník M., Strakoš Z.: Variants of the Residual Minimizing Krylov Space Methods. (Ed.: Marek J.) — IN PRINT, University of West Bohemia
Cited: • Schönauer W., Weiss R.: An Engineering Approach to Generalized Conjugate Gradient Methods and Beyand (Applied Numerical Mathematics, Spec. Issue on the Methods for Linear Equations, 1996, IMACS Publ.) • Weiss R.: An Overview of Theoretical Convergence Results for Krylov Subspace Mehods (Applied Numerical Mathematics, Spec. Issue on the Methods for Linear Equations, 1996, IMACS Publ.) • Spedicato E.: New ABS Solvers for Linear Algebraic Equations and Applications to Optimization (PhD Thesis, 1995, University of Bergamo, Bergamo) • Bodon E.: Some numerical Experiments with the GMRES and the ABS GMRES Algorithm for Linear Systems (Preprint, 1995, University Bergamo, Bergamo) • Bodon E.: Two Codes of the GMRES Method (Preprint, 1995, University of Bergamo, Bergamo)

- [144] Růžička P.: Neural Net Configuration Design Using Theory of Sensitivity and Tolerances. — In: Theoretical Aspects of Neurocomputing. Selected Papers from the Symposium on Neural Networks and Neurocomputing (NEURONET '90). (Ed.: Novák Mirko, Pelikán Emil), World Scientific, Singapore, 1991, 217-229
Cited: • Šebesta V.: Pruning of Neural Networks by Statistical Optimization (Proceedings of 6th Microcomputer School Neural Networks Theory and Applications, 1994, 209-214, SCI:ne)
- [145] Řízek S., Frolov A.: Differential Control by Neural Networks. — Neural Network World, 4 (1994), 4, 493-508
Cited: • Jiřina M.: Sigmoidal GMDH Neural Net Learning with not Enough Data (Proceedings of the 6-th Microcomputer School Neural Networks Theory and Applications, 1994, 137-143)
- [146] Řízek S., Frolov A.: Model of Differential Neurocontroller. — In: Proceedings of the 6. Microcomputer School. Neural Networks Theory and Applications, CCB, Brno, 1994, 197-202
Cited: • Jiřina M., Krayem S.M.: Convergence of the Learning with Small Learning Set in GMDH Neural Net (Neural Network Word 3, 1995, 320-339)
- [147] Savický P., Žák S.: A Lower Bound on-branching Programs Reading Some Bits Twice. — IN PRINT — Theoretical Computer Science (A)
Cited: • Jukna S., Razborov A.: Neither Reading Few Bits Twice nor Reading Illegally Helps Much ((Manuscript), 1996)
- [148] Spedicato E., Tůma M.: The Implicit LU Algorithm in the ABS Class for Sparse Matrices: Stability, University Bergamo, Bergamo, 1993, - (Report. ; DMSIA 7/93)
Cited: • Zhijian Huang: Row Update ABS Methods for Solving Sparse Nonlinear Systems of Equations (Preprint 1994 No 13, 1994, University Bergamo, Bergamo)
- [149] Strakoš Z.: On the Real Convergence Rate of the Conjugate Gradient Method. — Linear Algebra and its Applications, 154-156 (1991), 535-549
Cited: • Notay Y.: On the Convergence Rate of the Conjugate Gradients in Presence of Rounding Errors (Numerische Mathematik 65, 1993, 301-317) • Papadrakakis M., Bitoulas N.: Accuracy and Effectiveness of Preconditioned Conjugate-Gradient Algorithms for Large and Ill-Conditioned Problems (Computer Methods in Applied Mechanics and Engineering 109, 1993, 219-232) • Hackbush W. (Iterative Solutions of Large Sparse Systems of Equations, Applied Math. Sciences 95, Springer-Verlag, 1994)
- [150] Strakoš Z., Greenbaum A.: Open Questions in the Convergence Analysis of the Lanczos Process for the Real Symmetric Eigenvalue Problem. IMA Preprint Series No 934., IMA, Minnesota, 1992, 43 (Technical Report)
Cited: • Bai Z.: Error Analysis of the Lanczos Algorithm for the Nonsymmetric Eigenvalue Problem (Mathematics of Computation 62, 1994, 209-226)
- [151] Strakoš Z.: A Note on the Paper "Refined Interlacing Properties" by R.O. Hill, Jr. and B.N. Parlett. - Unpublished.
Cited: • Hill R.O. Jr., Parlet B.N.: Refined Interlacing Properties (SIAM J. Matrix Anal. Appl. 13, 1992, 339-347)
- [152] Šebesta V.: Vybrané úlohy teorie tolerancí, Academia, Prague, 1990, 134
Cited: • Novák M.: Some Considerations on the Tolerances and Sensitivities of Artificial Neural Networks (Research Report V-495, 1991, 39, ICIS CSAS, Prague) • Novák Mirko: Koncepce systémů s mimořádnou spolehlivostí (Výzkumná zpráva V-543, 1992, ICS AS CR, Prague) • Novák M.: Základy teorie provozní spolehlivosti a opravitelnosti systémů (Výzkumná zpráva V-569, 1993, ICS AS CR, Prague)
- [153] Šebesta V.: Strength and Weakness of Neural Networks. — In: Education and Research in Medical Informatics. (Ed.: Bommel van J. H., Zvárová J.), EuroMISE Center of Charles University, Prague,

1994, 40

Cited: • Novák M.: Souhrnná zpráva o průběhu a výsledcích řešení grantu GA ČR 101/93/0430 (Výzkumná zpráva V-603, 1994, 15, UIVT AV ČR, Prague)

- [154] Šebesta V.: Pruning of Neural Networks by Statistical Optimization. — In: Proceedings of the 6. Microcomputer School. Neural Networks Theory and Applications, CCB, Brno, 1994, 209-214
Cited: • Novák M.: Souhrnná zpráva o průběhu a výsledcích řešení grantu GA ČR 101/93/0430 (Výzkumná zpráva V-603, 1994, 15, UIVT AV ČR, Prague)
- [155] Švarcová J., Trnavský K., Zvárová J.: The Influence of Ultrasound Galvanic Currents and Shortwave Diathermy on Pain Intensity in Patients with Osteoarthritis. — Scandinavian Journal Rheumatology, 67 (1988), 83-85
Cited: • Chapman C.E. (Can.J.Physiol. 69, 1991, 704)
- [156] Tůma M.: Solving Sparse Unsymmetric Sets of Linear Equations Based an Implicit Gauss Projection, ICS AS CR, Prague, 1993, 28 (Technical Report ; V-556)
Cited: • Benzi M.: A direct Row-Projection Method for Sparse Linear Systems (PhD. Thesis, North California State University, Dept. Mathematics, 1993) • Benzi M., Meyer C.D.: A Direct Projection Methods for Sparse Linear-Systems (SIAM Journal on Scientific Computing 16, 1995, 1159-1176)
- [157] Tůma M.: An Implicit Gauss Algorithm for Sparse Unsymmetric Linear Systems. — In: Proceedings of the 10. Summer School Software and Algorithms of Numerical Mathematics, University of West Bohemia, Cheb, 1993, 179-186
Cited: • Spedicato E.: ABS Algorithms for Linear Systems and Linear Least Squares: Theoretical Results and Computational Performance (Scientia Iranica 1, 1995, 289-303)
- [158] Vopěnka P., Hájek P.: The Theory of Semisets, Academia, Prague, 1972, 332
Cited: • Verbrugge R.: Feasible Interpretability (ITLI Prepublication Series for Math. Logic NL-91-11, 1992, University of Amsterdam)
- [159] Wiedermann J.: Deterministic and Nondeterministic Simulation of the RAM by the Turing Machine. — In: Proceedings of the IFIP 9th World Computer Congress, North Holland, Amsterdam, 1983, 163-168
Cited: • Robson J.M.: An $O(T \log T)$ Reduction from RAM Computations to Satisfiability (Information Computation, 1993) • Grandjean E.: Linear-Time Algorithms and Np-Complete Problems (SIAM Journal on Computing 23, 1994, 573-597) • Grandjean E.: Linear Time Algorithms and NP-complete problems (Computer Science Logic. Selected Papers. Eds. E.Boerger et al., LNCS, Vol. 702 , 1993, Springer-Verlag, Berlin)
- [160] Wiedermann J.: On the Power of Synchronization. — J. Inf. Process. Cybern., 10 (1989), 499-506
Cited: • Ibarra O.H., Tran N.Q.: On Communication Bounded Synchronized Alternating Finite Automata (Acta Informatica, 1993) • Hromkovic J., Inoue K.: A Note on Realtime One-Way Synchronized Alternating One-Counter Automata (Theoretical Computer Science 108, 1993, 393-400) • Hromkovic J., Rován B., Slobodova A.: Determinic Versus Nondeterministic Space in Terms of Synchronized Alternating Machines (Theoretical Computer Science 132, 1994, 319-336) • Salomaa, K. - Wood, D. - Yu, Sh.: Complexity of EOL Structural Equivalence (Proc. MFCS'94, Lecture Notes in Computer Science, 841, 1994, Springer-Verlag, Berlin) • Hromkovic J. - Inoue K. - Rován B. - Slobodova A. - Takanami I. - Wagner K.: On the Power of One-way Synchronized Alternating Machines with Small Space (Int. J. Found. Comp. Science, 1993)
- [161] Wiedermann J.: Normalizing and Accelerating RAM Computations and the Problem of Reasonable Space Measures. — In: Proceedings ICALP'90, Springer Verlag, Berlin, 1990, 125-138
Cited: • Grandjean E.: Linear-Time Algorithms nad Np-Complete Problems (SIAM Journal on Computing 23, 1994, 573-597) • Grandjean E.: Linear Time Algorithms and NP-complete problems (Computer Science Logic. Selected Papers. Eds. E.Boerger et al., LNCS, Vol. 702 , 1993, Springer-Verlag, Berlin)

- [162] Wiedermann J.: Complexity Issues in Discrete Neurocomputing. — In: Aspects and Prospects of Theoretical Computer Science, Springer Verlag, Berlin, 1990, 93-108
Cited: • Floreen P., Orponen P.: Attraction Radii in Binary Hopfield Nets Are Hard to Compute (Neural Computation 5, 1993, 812-821)
- [163] Wiedermann J.: Some Afterthoughts on Computational Learning Theory. — In: SOFSEM '91. Conference Proceedings, Ústav výpočetní techniky MU, Brno, 1991, 271-274
Cited: • Šíma J.: Loading Deep Networks Is Hard (Neural Computation 6, 1994, 842-850)
- [164] Zvárová J.: On Asymptotic Behaviour of a Sample Estimator of Renyi's Information of Order Alfa. — In: Transactions of the 6. Prague Conference on Information Theory, Statical Decision Functions and Random Processes, Academia, Prague, 1973, 919-924
Cited: • Gill M.A., Gill P.: A Procedure to Test the Suitability of a Factor for Stratification in Estimating Diversity (Applied Mathematics and Computation 43, 1991, 221-229) • Gill M.A. (Kybernetika 28, 1992, 325) • Gill M., Martinez J.: On the Asymptotic Optimum Allocation in Estimating Inequality from Complete Data (Kybernetika, 1994 (in print)) • Zografos K.: Asymptotic Properties of Fí- Divergence Statistic and its Applications in Contingency Tables (J.Statistical Plann and Inf., 1994 (in print))
- [165] Zvárová J.: On Measures of Statistical Dependence. — Časopis pro pěstování matematiky, 99 (1974), 15
Cited: • Zografos K.: Asymptotic Properties of Fí- Divergence Statistic and its Applicatlions in Contingency Tables (J.Statistical Plann and Inf., 1994 (in print))
- [166] Zvárová J.: Statistické metody v sociálním lékařství, SPN, Prague, 1982, 156
Cited: • Havránek T. (Statistika pro biologické a lékařské vědy. Prague, Academia, 1993)
- [167] Zvárová J., Dostál C., Jirků P., Kasal P.: Lékařská informatika IV. Expertní a komunikační systémy v medicíně, Universita Karlova, Prague, 1992, 123
Cited: • Havránek T. (Statistika pro biologické a lékařské vědy, 1993, Academia, Prague)
- [168] Žák S.: A Turing Machine Time Hierarchy. — Theoretical Computer Science (1983), 26, 327-333
Cited: • Fu B., Li H. Z., Zhong Y.: An Application of the Translational Method (Mathematical Systems Theory 27, 1994, 183) • Allender E., Beigel R. Hertramph V., Homer S.: Almost-Every Where Complexity Hierarchies for Nondeterministic Time (Theoretical Computing Science 115, 1994, 225) • Krajíček J.: Bounded Arithmetic, Propositional Logic, and Complexity Theory (Sec. Encyklopedia in Mathematics 60, 1995, Cambridge University Press)
- [169] Žák S.: An Exponential Lower Bound for One-Time-Only Branching Programs. — In: Mathematical Foundations of Computer Science. Proceedings of Symposium, Springer-Verlag, Berlin, 1984, 562-566
Cited: • Breitbart Y., Hunt H., Rosenkrantz O.: On the Size of Binary Decision Diagrams Representing Boolean Functions (Theoretical Computer Science 145, 1995, 45-69) • Ponzio S.J.: Restricted Branching Programs and Hardware Verification (PhD. Thesis, 1995, MIT) • Ponzio S.J.: A Lower Bound for Integer Multiplication with Read-Once Branching Programs (Proc. 27th Annual ACM Symposium on the Theory of Computing, 1995, 130-139, Las Vegas) • Bollig B., Sauerhoff M., Sieling D., Wegener I.: On the Power of Different Types of Restricted Branching Programs (Theoretical Computer Science, 1996 (to appear)) • Jukna S., Razborov A.: Neither Reading Few Bits Twice nor Reading Illegally Helps Much ((Manuscript), 1996)
- [170] Žák S.: A Superpolynomial Lower Bound for $(1,+k(n))$ -branching programs. — In: Mathematical Foundations of Computer Science 1995. 20. International Symposium. Proceedings. (Ed.: Wiedermann J., Hájek P.), Springer, Berlin, 1995, 319-325
Cited: • Jukna S., Razborov A.: Neither Reading Few Bits Twice nor Reading Illegally Helps Much ((Manuscript), 1996)