

DEPARTMENT OF MATHEMATICS AND DESCRIPTIVE GEOMETRY

Head of the Department:
Prof. RNDr. Radko Mesiar, DrSc.

Tel: + 421 2 59274 703
Fax: + 421 2 52961 414
E-mail : mesiar@math.sk

I. STAFF**Professors**

Mesiar Radko, DSc.	+421 2 59274 414	mesiar@math.sk
Komorníková Magda, PhD.	+421 2 59274 428	magda@math.sk
Širáň Jozef, DSc.	+421 2 59274 315	siran@math.sk

Associate Professors

Handlovičová Angela, PhD.	+421 2 59274 417	angela@math.sk
Kalina Martin, PhD.	+421 2 59274 405	kalina@math.sk
Knor Martin, PhD.	+421 2 59274 415	knor@math.sk
Mikula Karol, PhD.	+421 2 59274 418	mikula@math.sk
Nánásiová Oľga, PhD.	+421 2 59274 424	olga@math.sk
Trokanová Katarína, PhD.	+421 2 59274 411	trokan@math.sk
Žembery Ivan, PhD.	+421 2 59274 424	zembery@math.sk

Senior Lecturers

Bašová Hana	+421 2 59274 409	basova@math.sk
Dallosová Agnesa	+421 2 59274 432	dallos@math.sk
Havranová Zuzana	+421 2 59274 408	zuzana@math.sk
Horváthová Monika	+421 2 59274 430	mhorvath@math.sk
Kalická Jana, PhD.	+421 2 59274 417	kalicka@math.sk
Krivá Zuzana, PhD.	+421 2 59274 339	kriva@math.sk
Kyselová Darina	+421 2 59274 408	kyselova@math.sk
Mészárosová Katarína	+421 2 59274 432	katarina@math.sk
Minárová Mária, PhD.	+421 2 59274 404	minarova@math.sk
Mordelová Juliana,	+421 2 59274 413	mordel@math.sk
Rüschlossová Tatiana, PhD.	+421 2 59274 327	tatiana@math.sk
Smrek Peter	+421 2 59274 413	smrek@math.sk
Struk Peter	+421 2 59274 418	struk@math.sk
Stupňanová Andrea, PhD.	+421 2 59274 416	andy@math.sk
Szőkeová Danuša	+421 2 59274 430	szoke@math.sk
Šiagiová Jana, PhD.	+421 2 59274 404	siagiova@math.sk
Študentová Zuzana, PhD.	+421 2 59274 429	studenc@math.sk
Tereňová Zuzana	+421 2 59274 413	terenova@math.sk
Vajsáblová Margita, PhD.	+421 2 59274 406	gitka@math.sk
Valášková Ľubica, PhD.	+421 2 59274 339	luba@math.sk
Václavíková Štefánia	+421 2 59274 404	stefi@math.sk

Researchers

Bystrický Róbert	+421 2 59274 407	rb@math.sk
Drblíková Oľga	+421 2 59274 416	drblikov@math.sk
Kollár Jozef	+421 2 59274 431	jmkollar@math.sk
Staneková Ľubica, PhD.	+421 2 59274 411	ls@math.sk

Technical Staff

Benková Zuzana (secretary) +421 2 59274 703 benkova@math.sk

Doctoral Students

Ahmed Mohammed +4212 59274 424 mohammed@math.sk
 Bacigal Tomáš +421 2 59274 419 bacigal@math.sk
 Fašková Zuzana +421 2 59274 429 faskova@math.sk
 Olejár Marián +4212 59274 409 olejar@math.sk
 Prcúch Ivan +4212 59274 407 prcuch@math.sk
 Rückschloss Roman +421 2 59274 413 roman@math.sk
 Šípošová Alexandra +4212 59274 419 siposova@math.sk
 Vavříková Lucia +421 2 59274 419 jassova@math.sk
 Vetrík Tomáš +421 2 59274 407 vetrik@math.sk
 Ždímalová Mária +421 2 59274 410 zdimal@math.sk

II. EQUIPMENT**II.1 Teaching and Research Laboratories**

Computer Laboratory

II.2 Special Measuring Instruments and Computers

15 x PC 586, 10 x PC 486

III. TEACHING**III.1 Graduate Study**

Subject	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Mathematics I	1	3	3	I. Žembery K. Trokanová
Mathematics II	2	3	3	I. Žembery K. Trokanová
Descriptive Geometry	1	2	2	D. Kyselová
Descriptive Geometry	2	2	2	D. Kyselová D. Szökeová
Mathematics I	1	4	4	M. Kalina
Mathematics II	2	4	5	M. Kalina
Descriptive Geometry	1	2	3	D. Szökeová J. Mordelová
Mathematics I	1	3	3	M. Komorníková
Mathematics II	2	3	3	M. Komorníková
Mathematics III	3	2	2	J. Kalická
Descriptive Geometry	2	2	2	M. Vajsáblová
Descriptive Geometry	3	2	2	M. Vajsáblová

Mathematics	7	2 – 2	A. Handlovičová R. Mesiar
Informatics	7	2 – 1	Z. Krivá
Informatics	3	0 – 4	Z. Krivá
Mathematics	7	2 – 3	A. Handlovičová R. Mesiar
Mathematical Statistics	7	2 – 2	J. Kalická
Mathematical Cartography	9	2 – 2	M. Vajsáblová
Mathematical Analysis I	1	3 – 3	A. Handlovičová
Engineering Geometry and AutoCAD	3	0 – 2	H. Bašová
Engineering Geometry and AutoCAD	4	0 – 2	H. Bašová
Geometry	1	2 – 2	M. Horváthová
Algebraic Structures and Math. Logic	1	2 – 2	M. Knor
Programming in C Language	1	3 – 2	Z. Krivá
Software	1	0 – 2	K. Mikula
Software	3	0 – 2	K. Mikula
Probability Theory	3	2 – 2	R. Mesiar
Numerical Mathematics	7	2 – 2	M. Minárová
Modelling and Data Analysis	7	2 – 1	L. Staneková

III.2 Postgraduate Study

Subject	Semester	Hours Per Semester	Lecturer
Linear Models of Time Series I	1	52	M. Komorníková
Linear Models of Time Series II	2	52	M. Komorníková
Mathematical Methods in Fluid Flow, Diffusion and Heat Transfer I	1	52	K. Mikula
Mathematical Methods in Fluid Flow, Diffusion and Heat Transfer II	2	52	K. Mikula
Mathematical Basis of a Finite Element Method I	1	52	K. Mikula
Mathematical Basis of a Finite Element Method II	2	52	K. Mikula
Stochastic Processes I.	1	52	M. Kalina
Applied Statistics I.	1	52	O. Nánásiová
Applied Statistics II.	2	52	O. Nánásiová
Uncertainty Modelling	2	52	R. Mesiar
Theory of Measures and Integrals	1	52	R. Mesiar
Fuzzy Logic	2	52	R. Mesiar
Proposed Experiment in Optimisation	1	52	M. Komorníková
Time Series Analysis in Civil Engineering	2	52	M. Komorníková

IV. RESEARCH TARGETS

1. Fuzzy Sets - Theory and Applications
2. Numerical Analysis of Nonlinear Partial Differential Equations with Applications in:
 - Flow-in Porous Medium
 - Free Boundary Problems

- Image Processing
- 3. Topological Graph Theory
- 4. Time Series Analysis
- 5. Mathematica - Applications in Engineering and Economic Problems
- 6. Computer Graphics
- 7. Non-Standard Measure and Integral Theory
- 8. Aggregation Operators

V. RESEARCH PROJECTS

1. VEGA 1/1145/04, Modelling Input Processes for Water Resources and Civil Engineering (2004-2006, Mesiar R.)
2. GAČR 402/04/1026, Aggregation Principles in Economic-Mathematical Models (2004-2006, Mesiar R., Komorníková M.)
3. VEGA 1/1034/04, Geometric Aspect of Modeling Landscape Elements and Their Spatial Application (2004-2006, Vajsáblová M.)
4. VEGA 1/3006/06, Uncertainty Modelling, Theory and Applications (2006-2008, Komorníková M.)
5. VEGA 1/3321/06, Modern Methods of Mathematical and Computer Modelling in Civil Engineering Applications (2006-2008, Mikula K.)
6. APVT 20-003204, Modern Methods of Stochastic and Non-Stochastic Modelling (2004 – 2006, Mesiar R.)
7. APVT 20-040902, Mathematical and Computational Methods of Image Processing (2004 – 2006, Mikula K.)
8. APVT 20-046402, Elements of Uncertainty Modelling (2004-2006, Stupňanová A.)
9. APVT 20-000704, Maps, Designs and Groups (2004-2006, Širáň J.)
10. EMBRYOMICS, EU Project No. 012916, Part of 6th European Programme (2005-2008, Mikula, K., Contractor)
11. BIOEMERGENCIAS, EU Project, Part of 6th European Programme (2005-2008, Mikula K., Contractor)
12. Large ARC Grant – Australia (2004-2006, Širáň J.)
13. UOA316 Marsden Fund, Royal Society of New Zealand (Principal Investigator of the Royal Society, Širáň J.)

VI. COOPERATION

VI.1 Cooperation in Slovakia

1. Faculty of Management, Comenius University, Bratislava
2. Faculty of Mathematics and Physics, Comenius University, Bratislava
3. Institute of Mathematics, Slovak Academy of Sciences, Bratislava
4. Military Academy, Liptovský Mikuláš
5. Faculty of Electrical Engineering and Informatics, STU Bratislava
6. Technical University, Zvolen
7. Faculty of Management, University of Žilina
8. GEOSAN s.r.o., Bratislava
9. Faculty of Chemical Engineering and Food Technology, STU Bratislava

VI.2 International Cooperation

1. University of Linz, Austria
2. University of Novi Sad, Yugoslavia
3. University of Haifa, Israel
4. CTU Prague, Czech Republic
5. University of Ostrava, Czech Republic
6. University of Liberec, Czech Republic
7. WB University, Plzeň, Czech Republic
8. Czech Academy of Sciences, Czech Republic
9. University of Ghent, Belgium
10. TU Budapest, Hungary
11. University of Waterloo, Canada
12. University of Central Lancashire, Preston, U.K.
13. University of Freiburg, Germany
14. University of Bremen, Germany
15. University of Heidelberg, Germany
16. University of Vermont, Burlington, VT, USA
17. University of California, Berkeley, CA, USA
18. University of Newcastle, Australia
19. University of Bologna, Italy
20. CINECA – Supercomputing Centre, Bologna, Italy
21. University of Gröningen, the Netherlands
22. University of the Balearic Islands, Palma de Mallorca, Spain
23. La Sapienza University, Rome, Italy
24. Syracuse University, Syracuse, NY, USA
25. University of Dortmund, Germany
26. Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany
27. Western Australia University, Perth, Australia
28. University of Auckland, New Zealand
29. TU Cracow, Poland
30. Pohang University of Science and Technology, South Korea
31. Western Washington University, Bellingham, WA, USA
32. McMaster University, Hamilton, Canada

VI.2.1 Visitors to the Department

1. Prof. SEMPI – UNI Lecce, Italy
2. Ing. MINARIK – CTU Prague, Czech Republic
3. Ing. OBERHUBER – CTU Prague, Czech Republic
4. Dr. FROLKOVIC – UNI Heidelberg, Germany
5. Doc. POTOČNIK – UNI Ljubljana, Slovenia
6. Prof. KLEMENT – JKU Linz, Austria

VI.2.2 Visits of Staff Members and Postgraduate Students to Foreign Institutions

1. HAVRANOVÁ, Z. – UNI Zittau, Germany
2. KYSELOVÁ, D. – UNI Zittau, Germany
3. NÁNÁSIOVÁ, O. – UNI Vaxjo, Sweden
4. MESIAR, R. – JKU Linz, Austria

5. MESIAR, R. – UNI Rovira I Virgli, Spain
6. MESIAR, R. – UNI Paris, France
7. MESIAR, R. – UNI Dortmund, Germany
8. MIKULA, K. – CNRS Paris, France
9. MIKULA, K. –UNI Heidelberg, Germany
10. MIKULA, K. – UNI Vienna, Austria
11. MIKULA, K. – IEEE EMBS New York, USA
12. MIKULA, K. – CNRS Paris, France
13. STANEKOVÁ, Ľ. – UNI Debrecen, Hungary
14. ŠIRÁŇ, J. – UNI Auckland, New Zealand
15. KOMORNÍKOVÁ – UNI Rome, Italy
16. VALÁŠKOVÁ, Ľ. – UNI Paris, France
17. VETRÍK, T. – UNI Haifa, Israel

VII. THESES

Concerning bachelor, graduate and doctoral theses, see web site <http://www-kmadg.svf.stuba.sk/>

VIII. OTHER ACTIVITIES

VIII.2 Conferences and Workshops Organised

1. 8th International Conference on Fuzzy Set Theory and Applications - FSTA 2006, Liptovský Ján, Slovakia, February 2005
2. 1st Slovak-Japanese Workshop on Computational Mathematics, Kočovce, Slovakia, September 2006
3. Conference on Mathematics, Geometry and Their Applications – MAGIA 2006, Kočovce, Slovakia, November 2006
4. International Conference on Applied Mathematics for Undergraduate and Graduate Students – ISCAM 2006, Bratislava, Slovakia, April 2006

IX. PUBLICATIONS

IX.1 Journals

1. KALINA, M.- NÁNÁSIOVÁ, O.: Conditional States and Joint Distributions on MV-Algebras, *Kybernetika*, Vol.42, No. 2, 2006, pp. 129-142 (in English)
2. KNOR, M.- NIEPEL, Ľ.: Iterated Line Graphs are Maximally Ordered, *J. Graph Theory* 52, 2006, pp. 171-180 (in English)
3. BOEHME, T.- KNOR, M.- NIEPEL, Ľ.: Linkability in Iterated Line Graphs, *Discrete Math.* 306, 2006, pp. 666-669 (in English)
4. GRANNELL, M. J.- GRIGGS, T. S - KNOR, M. - ŠIRÁŇ, J.: Triangulations of Orientable Surfaces by Complete Tripartite Graphs, *Discrete Math.* 306, 2006, pp. 600-606 (in English)

5. KNOR, M.- NIEPEL, L.: Distance Independent Domination in Iterated Line Graphs, *Ars Combinatoria* 79, 2006, pp.161-170 (in English)
6. MESIAR, R.- ŠPIRKOVÁ, J.: Weighted Means and Weighting Functions, *Kybernetika*, Vol.42, N. 2, 2006, pp.151-160 (in English)
7. KLEMENT, E. P.- MESIAR, R.: Open Problems Posed at the Eighth International Conference on Fuzzy Set Theory and Applications, *Kybernetika*, Vol.42, No. 2, 2006, pp. 225-235 (in English)
8. KLEMENT, E. P.- MESIAR, R.: Special Issue: editorial, *Kybernetika*, Vol. 42, No. 3, 2006, pp. 241-242 (in English)
9. MESIAR, R.: Fuzzy Set Approach to the Utility, Preference Relations and Aggregation Operators, *European Journal of Operational Research* 176, 2006, pp. 414-422 (in English)
10. MESIAR, R.- MESIAROVÁ, A.- VALÁŠKOVÁ, L.: Generated Universal Fuzzy Measures, *Modelling Decisions for Artificial Intelligence*, Springer Verlag, 2006, pp. 191-202 (in English)
11. MESIAR, R.: Fuzzy Sets and Multicriteria Decision Making, *Computational Intelligence, Theory and Applications*, 2006, pp. 629-636 (in English)
12. MESIAR, R.- NOVÁK, V.: Fifteen Years of Fuzzy Logic in Dortmund, *Computational Intelligence and Applications*, 2006, pp. 127-138 (in English)
13. BACIGÁL, T.- KOMORNÍKOVÁ, M.: Fitting Archimedean Copulas to Bivariate Geodetic Data, *COMPSTAT, Physica - Verlag*, 2006, pp. 649-656 (in English)
14. KOMORNÍK, J.- KOMORNÍKOVÁ, M. - SZOKEOVÁ, D.: Testing the Adequacy of Regime Switching Time Series Models Based on Aggregation Operators, *COMPSTAT, Physica - Verlag*, pp. 1187-1192 (in English)
15. MESIAR, R.- KOMORNÍK, J.- KOMORNÍKOVÁ, M.- SZOKEOVÁ, D.: Switching by Aggregation Operators in Regime-Switching Models, *COMPSTAT, Physica - Verlag*, pp. 1171-1177 (in English)
16. DURANTE, F.- MESIAR, R.- SEMPI, C.: On a Family of Copulas Constructed from a Diagonal Section, *Soft Computing*, 2006, pp. 490-494 (in English)
17. MESIAR, R.- REUSCH, B.- THIELE, H.: Fuzzy Equivalence Relations and Fuzzy Partitions, *Journal of Multivalued Logic & Soft Computing* 12, 2006, pp. 167-181 (in English)
18. KOLESÁROVÁ, A.- MESIAR, R.- MORDELOVÁ, J.- SEMPI, C.: Discrete Copulas, *IEEE Transactions on Fuzzy System*, 14/5, 2006, pp. 698-705 (in English)
19. KOLESÁROVÁ, A.- MORDELOVÁ, J.: Quasi-Copulas and Copulas on Discrete Scale, *Soft Computing*, 10/6, 2006, pp. 495-501 (in English)
20. KOMORNÍK, J.- KOMORNÍKOVÁ, M.- MESIAR, R.- SZÖKEOVA, D.- SZOLGAY, J.: Comparison of Forecasting Performance of Nonlinear Models of Hydrological Time Series, *Physics and Chemistry of the Earth*, 18/31, 2006, pp. 1127-1145 (in English)
21. STRUK, P.- STUPŇANOVÁ, A.: S-Measures, T-Measures and Distinguished Classes of Fuzzy Measures, *Kybernetika*, Vol.42, No. 3, 2006, pp. 367-378 (in English)
22. STRUK, P.: Extremal Fuzzy Integral, *Soft Computing: A Fusion of Foundations, Methodologies and Applications*, Vol. 10, No. 4, 2006, pp 502-505 (in English)
23. STANEKOVÁ, L.: Cayley Maps with Given Exponents and Distribution of Inverses, *Australasian Journal of Combinatorics*, No. 34, 2006, pp. 3-15 (in English)

24. RUCKSCHLOSSOVÁ, T.- RUCKSCHLOSS, R.: Homogeneous Aggregation Operators, *Kybernetika*, Vol. 42, 2006, pp. 276-286 (in English)
25. ŠIRÁŇ, J.: Regular Maps on a Given Surface: A Survey, *Topics in Discrete Mathematics*, Springer, Berlin, 2006, pp. 591-601 (in English)
26. ŠIRÁŇ, J.: Graph Embeddings and Designs, *Handbook of Combinatorial Designs*, CRC Press, 2006, pp. 503-506 (in English)
27. NÁNÁSIOVÁ, O.- KHRENNIKOV, A.: Representation Theorem of Observables in a Quantum System, *International Journal of Theoretical Physics*, 45/3, 2006, pp. 481-494 (in English)
28. NÁNÁSIOVÁ, O.- KHRENNIKOV, A.: Compatibility and Marginality, *International Journal of Theoretical Physics*, 2006, 14 pp. (in English)
29. ŠIAGIOVÁ, J.- ŠIRÁŇ, J.: A Note on Large Cayley Graphs of Diameter Two and Given Degree, *Discrete Math.*, 2006, pp. 379-382 (in English)
30. MIKULA, K.- ŠEVČOVIČ D.: Evolution of Curves on Surface Driven by the Geodesic Curvature and External Force, *Applicable Analysis*, 2006, pp. 345-362 (in English)
31. MIKULA, K.- SARTI, A.- SGALLARI, F.: Co-Volume Method for Riemannian Mean Curvature Flow in Subjective Surfaces Multiscale Segmentation, *Computing and Visualization in Science*, Vol. 9, No. 1, 2006, pp. 23-31 (in English)
32. MESIAR, R. - KLEMENT, E. P.: How Non-Symmetric Can a Copula Be? *Comment. Math. Univ. Carolinae* 47, Vol. 1 2, 2006, pp. 141-148 (in English)
33. CINTULA, P.- KLEMENT, E. P.- MESIAR, R.- NAVARA, M.: Residuated Logics Based on Strict Triangular Norms with an Involutive Negation, *Math. Log. Quart.*, Vol. 52, No. 3, 2006, pp.269-282 (in English)
34. HORVÁTHOVÁ, M.: On (k, l) Radius of Random Graphs, *Acta Mathematica Universitatis Comenianae*, 75/2, 2006, pp. 49-152 (in English)
35. BACIGÁL, T.: Multivariate LSTAR in Geodesy, *Journal of ELECTRICAL ENGINEERING*, Vol. 57, No. 7/s, 2006, pp. 117-120 (in English)
36. DRBLÍKOVÁ, O.: Semi-Implicit Finite Volume Schemes for Solving Tensor Diffusion, *Image Processing, Journal of ELECTRICAL ENGINEERING*, Vol. 57, No. 7/s, 2006, pp. 9-13 (in English)
37. FAŠKOVÁ, Z.: Application of the Finite Element Method to the Geodetic Boundary Value Problem in Europe, *Journal of ELECTRICAL ENGINEERING*, Vol. 57, No. 7/s, 2006, pp. 39-42 (in English)
38. HORVÁTHOVÁ, M.: The Structure of (k, l) Central Sets and the Value of (k, l) –Radii of Complete Bipartite Graphs $K_{1, n}$ and $K_{2, n}$, *Journal of ELECTRICAL ENGINEERING*, Vol. 57, No. 7/s, 2006, pp. 7-8 (in English)
39. KALINA, M.- HAVRANOVÁ, Z.: Construction of Lukasiewicz Filters, *Advances in Electrical and Electronic Engineering*, No. 3, 2006, pp. 415-417 (in English)
40. KALINA, M.- ŠOSTAK, A.: Measures of Differentiability, *Computational Intelligence, Theory and Applications*, 2006, pp. 301-307 (in English)
41. KYSELOVÁ, D.: T-Norm – Based Orderings on I, *Advances in Electrical and Electronic Engineering*, No. 3, 2006, pp. 418-420 (in English)

42. ŠTUDENCOVÁ, Z.: A Decomposition of Point Symmetry into a Product of Line Symmetries at a Primary School, *Acta Didactica Universitatis Comenianae, Mathematics*, 2006, pp. 111-120 (in English)
43. VETRÍK, T.: Decompositions of Complete Graphs into Three Factors, *Journal of ELECTRICAL ENGINEERING*, Vol. 57, No. 7/s, 2006, pp. 113-114 (in English)
44. VETRÍK, T.: A Note on Factorizations of Complete Graphs, *Journal of Electrical Engineering* 57, No. 7/s, 2006, pp. 99 – 100 (in English)
45. BOHDALOVÁ, M.- MINÁROVÁ, M.- NÁNÁSIOVÁ, O.: A Note on Algebraic Approach to Uncertainty, *Forum Statisticum Slovacum*, 2006, pp. 31-39 (in English)
46. LOVÁS, J.- MIKULA, K.: Mathematical Modelling of a Combined Hot-Water Heating System by Means of the Finite Element Method, *Slovak Journal of Civil Engineering*, Vol. XIII, 2005/2, 2006, pp. 15-19 (in English)
47. ČUNDERLÍK, R.- MIKULA, K.: Boundary Element Method for the Gravity Field Modelling in the Himalayas, *Slovak Journal of Civil Engineering*, Vol. XIII, 2005/4, 2006, pp. 13-18 (in English)

IX.2 Books and Textbooks

1. MIKULA, K.: Numerical Solution, Analysis and Application of Geometrical Nonlinear Diffusion Equations, STU Publishing Centre, Bratislava, 2006, 89 pp. (in English)
2. VALÁŠKOVÁ, E.: Non-Additive Measures and Integrals, STU Publishing Centre, Bratislava, 2006 (in English)
3. SAMINGER, S.- BODENHOFER, U.- KLEMENT, E. P.- MESIAR, R.: Aggregation of Fuzzy Relations and Preservation of Transitivity, Theory and Application of Relational Structures as Knowledge Instruments, TARSKI LNAI, ISBN 978-3-540-69223-2, 2006, pp. 185-206 (in English)
4. IVANOVÁ, E. - VETRÍK, T.: Microeconomic-Practical Exercises, TU Trenčín, 2006, 109 pp. (in Slovak)
5. KRIVÁ, Z.: Language C- Basic Programming, 2006, 203 pp. (in Slovak)
6. JANÁK, J.- MIKULA, K.- ČUNDERLÍK, R.: Physical Geodesy II, STU Publishing Centre, Bratislava, 2006 (in Slovak)
7. KALICKÁ, J. - KOMORNÍKOVÁ, M. - MIKULA, K.- SZÖKEOVÁ, D.: Mathematica System and Its Use in Building and Geodesy, CD STU Publishing Centre, 2006, 210 pp. (in Slovak)
8. KALICKÁ, J., KRIVÁ, Z.: Basic Statistics in Excel, CD STU Publishing Centre, 2006, 210 pp. (in Slovak)
9. BAŠOVÁ, H.: Computer Support for Building Projects in AutoCAD, CD STU Publishing Centre, 2006, 203 pp. (in Slovak)

IX.3 Conferences

1. KOMORNÍK, J.- KOMORNÍKOVÁ, M.: Application of Aggregation Operators in Regime-Switching Models for Multiple Exchange Rates, IPMU 2006 Proceedings, 2006, pp. 699-704 (in English)

2. KLEMENT, E. P.- MESIAR, R.: Invariance Versus Extremal Difference, IPMU 2006 Proceedings, 2006, pp. 678- 682 (in English)
3. RICCI, G.- MESIAR, R.- MESIAROVÁ, A.: Lipschitzianity of Triangular Subnorms, IPMU 2006 Proceedings, 2006, pp. 671-678 (in English)
4. MESIAR, R.- MESIAROVÁ, A.- VALÁŠKOVÁ, Ľ.: Generator-Based Universal Fuzzy Measures and Integrals, IPMU 2006 Proceedings, 2006 (in English)
5. SAMINGER, S.- KLEMENT, E., P.- MESIAR, R.: A Note on Ordinal Sums of t-Subnorms on Bounded Lattices, IPMU 2006 Proceedings, 2006, pp. 664-670 (in English)
6. KOLESÁROVÁ, A.- MESIAR, R.- SEMPI, C.: Three Copulas and Compatibility, IPMU 2006 Proceedings, 2006, pp. 658-663 (in English)
7. SAMMINGER, S.- DUBOIS, D.- MESIAR, R.: On Consensus Functions in the Bipolar Case, Preferences, Games and Decisions, 27th Linz Seminar on Fuzzy Set Theory 2006, Abstracts, 2006, pp.116-120 (in English)
8. HAVRANOVÁ, Z. - KALINA, M.: Weakly S-Additive Measure, IPMU 2006 Proceedings, 2006, pp. 630-634 (in English)
9. BOHDALOVÁ, M.- NÁNÁSIOVÁ, O.: Note on Copula Functions, E-Leader, 2006, p. 9 (in English)
10. NÁNÁSIOVÁ, O.: S-Map and Probability, ROBUST 2006, 2006, 8 pp. (in English)
11. MESIAR, R.- KYSELOVÁ, D.- DUBOIS, D.: Lorentz-Like Orderings in Multicriteria Decision Making, 13th Zittau Fuzzy Colloquium, Conference Proceedings, 2006, pp. 249-256 (in English)
12. MESIAR, R.- KYSELOVÁ, D.- DUBOIS, D.: Aggregation-Based Preference Relations, 13th Zittau Fuzzy Colloquium, Conference Proceedings, 2006, pp. 242-248 (in English)
13. MORDELOVÁ, J.- KALICKÁ, J.: Discrete 3-Copulas, 13th Zittau Fuzzy Colloquium, Conference Proceedings, 2006, pp. 281-288 (in English)
14. STANEK, M.- STANEKOVÁ, L.: Unpuzzling Puzzle Analysis of a Video Encryption Algorithm, AINA 2006 Proceedings, Vienna, 2006, pp. 20-24 (in English)
15. HAVRANOVÁ, Z.- KALINA, M.: Integrals with Respect to Weakly S-Additive Measures, 13th Zittau Fuzzy Colloquium, Conference Proceedings, 2006, pp. 269-274 (in English)
16. HAVRANOVÁ, Z.- KALINA, M.: A View on Similarities on Systems of Fuzzy Subsets, 13th Zittau Fuzzy Colloquium, Conference Proceedings, 2006, pp. 269-274 (in English)
17. FENCÍK, R.- VAJSÁBLOVÁ, M.: Parameters of Interpolation Methods of Creation of Digital Model of Landscape, Proceedings of AGILE 2006 Conference, pp. 374-381 (in English)
18. KNOR, M.: Iterated Line Graphs are Maximally Ordered (Cycles in iterated line graphs), Winter Combinatorics Meeting 2006, Abstracts, 2006 (in English)
19. KNOR, M.: Iterated Line Graphs are Maximally Ordered, 6th Czech-Slovak International Symposium on Combinatorics, Graph Theory, Algorithms and Applications, 2006, Abstracts (in English)
20. KNOR, M.: Embeddings of Tables of Groups of Order 8, Symmetries in Graphs, Maps and Complexes, 2006 (in English)

21. KNOR, M.: Triangulations of Orientable Surfaces by Complete Tripartite Graphs, 2006 (<http://home.agh.edu.pl/~3in1/whatabout.html>) (in English)
22. HAVRANOVÁ, Z.- KALINA, M.: Conditioning with S-Additive Measures, Proceedings of 5th Workshop, Brno, 2006, pp. 65-67 (in English)
23. STANEK, M.-STANEKOVÁ, L.: Collisions in Rate-2 Generalized PGV Hash Functions, NyirCrypt, Abstract, 2006, p. 39 (in English)
24. STANEKOVÁ, L.: T –Balanced Cayleys Maps of Dihedral Groups, Combinatorics, Graph Theory, Algorithms and Applications, Abstract, 2006, p. 120 (in English)
25. VETRÍK, T.: Large Vertex-Transitive and Cayley Graphs with Given Degree and Diameter, Combinatorics, Graph Theory, Algorithms and Applications, Abstracts, 2006, p. 125 (in English)
26. DROBNÁ, E.- CHOVANEC, F.-KOPKA, F.- NÁNÁSIOVÁ.: Conditional States on D-Posets, Abstract, 8th Binomial Meeting QS, 2006, p. 23 (in English)
27. BOHDALOVÁ, M.- MINÁROVÁ, M.- NÁNÁSIOVÁ, O.: S-Map and Its Dual Function, Proceedings of 5th Workshop, Brno, 2006, pp. 27-28 (in English)
28. NÁNÁSIOVÁ, O.: S-Map and Probability, Robust 2006, 2006, p. 29 (in English)
29. BACIGÁL, T.- KOMORNÍKOVÁ, M.: Fitting Archimedean Copulas to Bivariate Geodetic Data, COMPSTAT 2006 Abstracts, 2006, p. 25 (in English)