

DEPARTMENT OF MATHEMATICS AND DESCRIPTIVE GEOMETRY

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I. STAFF**Professors**

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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. Szökeová D. Kyselová
Descriptive Geometry	2	2 – 2		A. Kyselová D. Szökeová
Mathematics I	1	4 – 4		M. Kalina
Mathematics II	2	4 – 5		J. Širáň M. Kalina A. Stupňanová
Descriptive Geometry	1	2 – 3		Ľ. Valášková Z. Havranová
Mathematics I	1	3 – 3		M. Komorníková
Mathematics II	2	3 – 3		M. Komorníková
Mathematics III	3	3 – 3		P. Viceník
Descriptive Geometry	2	2 – 2		M. Vajsáblová
Descriptive Geometry	3	2 – 2		M. Vajsáblová

Mathematics	7	2 – 2	A.Handlovičová R. Mesiar
Applied Mathematics	7	2 – 1	A.Handlovičová O. Nánásiová
Mathematics	7	2 – 3	A.Handlovičová R. Mesiar
Mathematical Statistics	7	2 – 2	J. Kalická
Mathematical Statistics	8	2 – 2	J. Kalická J. Šiagiová
Mathematics in Architecture	10	2 - 1	D. Szökeová A.Handlovičová
Measurement and Data Processing Theory	7	2 – 2	O. Nánásiová
Engineering Geometry and AutoCAD	3	0 – 2	H. Bašová
Engineering Geometry and AutoCAD	4	0 – 2	H. Bašová

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 Measure and Integral	1	52	R. Mesiar
Fuzzy Logic	2	52	R. Mesiar
Algebraic Theory of Graphs	1	52	J. Širáň
Probabilistic Modelling	2	52	J. Širáň
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] Uncertainty Modelling: Theory and Application (2003 - 2005, Komorníková, M.)
- [2] CEEPUS SK - 42 "Fuzzy Control" (2001 - 2005, Mesiar R.)
- [3] Efficient Computational Methods in Engineering Sciences and Applications (2003 - 2005, Mikula K.)
- [4] Metric and Topological Properties of Oriented, Non-Oriented and Labelled Graphs (2003 – 2005, Širáň J.)
- [5] Slovak – German Cooperative Project on “Nets and Their Applications“ (2002 – 2004, Širáň J.)
- [6] Slovak – USA Cooperative Project on “Symmetries and Network Designs (2002 – 2004, Širáň J.)
- [7] Leverhulm Trust Grant “Topological Design Theory“, 2003 – 2005, Sub-Coordinator: Knor, M.
- [8] Theory and Applications of Relational Structures as Instruments of Knowledge (TARSKI COST 274, 2001-2005, Mesiar R.)
- [9] Modeling Input Processes for Water Resources and Civil Engineering (2004-2006, Mesiar R.)
- [10] NATO Collaborative Linkage Grant PST.CLG.979123: Efficient and Robust Computational Methods for Biomedical Image Analysis, 2002 – 2004, Sub-Coordinator: Mikula K.
- [11] Slovak – Czech Cooperative Project 124/159: Modern Methods of Mathematical Modelling and Numerical Simulation of Technological and Scientific Processes (2002 – 2004, Mikula K.)
- [12] Parallel Processing of Three-Dimensional Image Sequences, HPC Europa (2004-2005, Mikula K.)
- [13] Triangular Norms, Action Austria-Slovakia 42s2, 2003-2004, Mesiar R.
- [14] Aggregation Principles in Economic-Mathematical Models (GAČR 402/04/1026, 2004-2006, Mesiar R., Komorníková, M.)

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, SUT 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, SUT 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. Doc. BENEŠ, CTU Prague, Czech Republic, January 2004
2. Prof. DERMICI, UNI Antalya, Turkey, January 2004
3. Dr. FROLKOVIČ, University of Heidelberg, Germany, February 2004
4. Doc. NAVARA, CTU Prague, Czech Republic, April 2004
5. Prof. WEBB, Open University, United Kingdom, June 2004

6. Prof. GRIGGS, Open University, United Kingdom, June 2004
7. Prof. GRANNELL, Open University, United Kingdom, June 2004

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

1. BYSTRICKÝ, R.
 - University of Innsbruck, Austria, 1 month
2. DRBLÍKOVÁ, O.
 - Sussex University, Brighton, England, 3 months
 - University of Bologna, Italy, 1 week
3. IPOLYIOVÁ, M.,
 - TU Ilmenau, Germany, November 2004, 5 days
4. HANDLOVIČOVÁ, A.,
 - University of Bologna, Italy, July 2004, 10 days
 - University of Bologna, Italy, October 2004, 7 days
5. KALINA, M.
 - JKU Linz, Austria, February 2004, 3 weeks
 - University of Latvia, Riga, Latvia, September 2004, 6 days
 - CTU Prague, Czech Republic, June 2004, 3 days
 - University of Dortmund, Germany, September 2004, 4 days
6. KNOR, M.,
 - The Open University, Milton Keynes, England, March 2004, 19 days
 - TU Ilmenau, Germany, January 2004, 8 days
 - TU Ilmenau, Germany, November 2004, 1 week
7. KOLLÁR, J.,
 - University of Warsaw, Poland, August 2004, 1 week
8. KRIVÁ, Z.
 - University of Bologna, Italy, July 2004, 10 days
9. MESIAR, R.
 - University of Lecce, Italy, September 2004, 1 week
 - University of Dortmund, Germany, March 2004, 1 month
 - University of Dortmund, Germany, May 2004, 1 month
 - JKU Linz, Austria, June 2004, 8 days
 - JKU Linz, Austria, February 2004, 1 week
 - JKU Linz, Austria, November 2004, 1 month
 - IIIA Belaterra, Spain, August 2004, 1 week

10. MIKULA, K.

- Keio University, Yokohama, Japan, January 2004, 2 weeks
- University of Heidelberg, Germany, March 2004, 2 weeks
- CIRAM, University of Bologna, Italy, May 2004, 2 weeks
- Institute for High-Performance Computing and Networking, Naples, Italy, June 2004, 2 weeks
- CINECA, InterUniversity Supercomputing Center, Bologna, Italy, September 2004, 3 weeks
- CINECA, InterUniversity Supercomputing Center, Bologna, Italy, November 2004, 3 weeks

11. MINÁROVÁ, M.,

- TU Cracow, Poland, July 2004, 2 weeks

12. NÁNÁSIOVÁ, O.,

- Nottingham, United Kingdom, January 2004, 5 days
- Växjö, Sweden, February 2004, 25 days

13. STANEKOVÁ, E.,

- University of Ostrava, Czech Republic, May 2004, 2 weeks
- TU Ilmenau, Germany, November 2004, 5 days

14. ŠIAGIOVÁ, J.

- Syracuse University, N.Y., USA, January 2004, 4 months
- Institute of Mathematics, University of Auckland, New Zealand, June 2004, 7 months

15. ŠIRÁŇ, J.,

- The Open University, Milton Keynes, England, January 2004, 2 weeks
- Institute of Mathematics, University of Auckland, New Zealand, February 2004, 3 months
- Institute of Mathematics, University of Auckland, New Zealand, June 2004, 7 months

16. VAJSÁBLOVÁ, M.,

- TU Cracow, Poland, May 2004, 2 weeks

17. VALÁŠKOVÁ, E.,

- TU Cracow, Poland, May 2004, 2 weeks

18. ŽDÍMALOVÁ, M.,

- University of Ostrava, Czech Republic, May 2004, 2 weeks

VIII. OTHER ACTIVITIES

VIII.1 Special Lectures

i) In Slovak

- [1] ANDO, M.: Anthrophogenic Man-Made Effect of Surface Waters and Underground Waters in the Area of the Myjava Hills, 16th Conference of Young Hydrologists, Bratislava, November 2004
- [2] HAVRANOVÁ, Z.: Izofotes on Regular Polyhedrones, SCG2004, Kočovce, October 2004
- [3] HAVRANOVÁ, Z., KYSELOVÁ, D.: Tests of Space Imagination, MAGIA 2004 Conference, Kočovce, October 2004
- [4] IPOLYIOVÁ, M.: Regular Maps of Large Planar Width, Seminar of Graph Theory, FMFI UK Bratislava, December 2004
- [5] KALICKÁ, J.: Simulations of Parameter Estimation in Stochastic Processes on Orthomodular Lattice, PRASTAN 2004 Conference, Kočovce, May 2004
- [6] KALICKÁ, J.: ICME-10, New Trends, Actual Problems and Changes in Mathematical Education, MAGIA 2004 Conference, Kočovce, October 2004
- [7] KALICKÁ, J.: Simulations in Stochastic Processes, Seminar on Non-Standard Mathematical Methods, Bratislava, May 2004
- [8] HORVÁTHOVÁ, M.: Approximate Surface Modelling, Seminar on Geometry and Its Applications, Bratislava, January 2004
- [9] HORVÁTHOVÁ, M.: Approximate Surface Modelling Using the MATHEMATICA Computational System, MAGIA 2004 Conference, Kočovce, October 2004
- [10] KALINA, M.: Models of Fuzzy Functions, Fuzzy Sets and Quantum Structures Conference, Vyhne, June 2004
- [11] KALINA, M.: Measure of Differentiability, Seminar on Non-Standard Mathematical Methods, Bratislava, March 2004
- [12] KRIVÁ, Z.: Elementary Statistics in Excel and VBA for Excel for BSc Study Environmental Engineering, VŠTEP Conference, Rožňava, August 2004
- [13] KOLLÁR, J.: Work with Graphics in OS Linux and Graphics Creation of Web, MAGIA 2004 Conference, Kočovce, October 2004
- [14] KOLLÁR, J.: OpenOffice.org and Compability with MS Office in OS Linux, MAGIA 2004 Conference, Kočovce, October 2004
- [1] MATÚŠ, R.: Migration of Vestigial Elements Hg, As and Sb in Malachov's Ore Field, 3rd Conference of Young Water Managers, Bratislava, November 2004
- [15] MÉSZÁROŠOVÁ, K.: Geometry in Profile of Graduates of the Faculty of Architecture, VŠTEP Conference, Rožňava, August 2004
- [16] MÉSZÁROŠOVÁ, K.: Fractals and Fractally Dimensions, MAGIA 2004 Conference, Kočovce, October 2004
- [17] MÉSZÁROŠOVÁ, K.: Screw Surfaces and Their Applications, Seminar on Geometry and Its Applications, Bratislava, January 2004

- [18] MIKULA, K.: Mathematical Models in Engineering Applications, MAGIA 2004 Conference, Kočovce, October 2004
- [19] NÁNÁSIOVÁ, O.: Stochastic Processes, Seminar on Non-Standard Mathematical Methods, Bratislava, May 2004
- [20] STANEKOVÁ L.: Exponents of One-Vertex Maps, Seminar on Graph Theory, FMFI UK Bratislava, November 2004
- [21] TROKANOVÁ, K.: Mathematical Education at the Faculty of Civil Engineering of the Slovak University of Technology, Bratislava, VŠTEP Conference, Rožňava, August 2004
- [22] VAJSÁBLOVÁ, M.: Geometrical Foundations of Photogrammetry, VŠTEP Conference, Rožňava, August 2004
- [23] VAJSÁBLOVÁ, M.: Cartographic Image of Geodesics and Their Distortion in Cylindrical Projections, Seminar Activities in Cartography, Bratislava, October 2004
- [24] VAJSÁBLOVÁ, M.: Geodetic Curve, Geodesic and Loxodrome in Cartographic Projections, SCG'2004 – Symposium of Computer Geometry, Kočovce, November 2004
- [25] VAJSÁBLOVÁ, M.: Distortion of Geodetic Curves, MAGIA 2004 Conference, Kočovce, October 2004
- [26] ŽDÍMALOVÁ, M.: Nontraditional Approach to Mathematical Education, Summer School of Mathematical Education Theory PYTAGORAS 2004, Kováčová, July 2004

ii) In English

- [1] BACIGÁL, T.: Multivariate Threshold Autoregressive Models in Geodesy, International Conference in Applied Mathematics for Undergraduate and Graduate Students, ISCAM 2004 Conference, Slovak University of Technology, Bratislava, Slovak Republic, April 16-17, 2004
- [2] BACIGÁL, T.: Modeling Point's Position Time Series with Respect to Common Trend, PRASTAN 2004 Conference, Kočovce, Slovak Republic May 17-21, 2004
- [3] BACIGÁL, T.: KOMORNÍKOVÁ, M.: Modelling Point's Position Time Series in the Light of Cointegration, INGEO 2004 Conference, Bratislava, Slovak Republic, November 11-13, 2004
- [4] BACIGÁL, T., et al.: Variance Components Estimate in 2D Geodetic Network, INGEO 2004 Conference, Bratislava, Slovak Republic, November 11-13, 2004
- [5] BOGNÁR, T., KOMORNÍKOVÁ, M.: Time Series Analysis: Theory and Application. International Conference on Decomposition Methods in Mathematical Modelling and Informatics, Moscow, Russia, June 21 – 24, 2004
- [6] BOGNÁR, T., KOMORNÍK, J., KOMORNÍKOVÁ, M.: New STAR Models of Time Series and Their Application in Finance, 16th COMPSTAT 2004 Symposium, Prague, Czech Republic, August 22 – 27, 2004
- [7] BOGNÁR, T., KOMORNÍK, J., KOMORNÍKOVÁ, M.: Application of Regime-Switching Models of Time Series with a Cubic Spline Transition Function, SPMS 2004 Conference, Oviedo, Spain, September 2 – 5, 2004

- [8] DRBLÍKOVÁ O.: Computational Methods Based on Nonlinear Diffusion in Image Processing. MAGIA 2004 Conference, Kočovce, Slovak Republic, October 15-17, 2004
- [9] DRBLÍKOVÁ O.: Semi-Implicit Finite Volume Scheme for Weickert Model, Seminar on Numerical Mathematics, Bratislava, April 2004
- [10] HANDLOVIČOVÁ, A.: Properties of Explicit Finite Volume Scheme for Perona-Malik Equation, PRASTAN 2004 Conference, Kočovce, Slovak Republic, May 2004
- [11] HANDLOVIČOVÁ, A.: Modern Numerical Methods for Solving Practical Problems, MAGIA 2004 Conference, Kočovce, Slovak Republic, October 15-17, 2004
- [12] IPOLYIOVÁ, M.: The Size of Regular Maps with Planar Width at Least r , ISCAM 2004 Conference, Slovak University of Technology, Bratislava, Slovak Republic, April 16-17, 2004
- [13] IPOLYIOVÁ, M.: An Upper Bound on the Size of the Smallest Trivalent Regular Maps of Prime Face Length and of Large Planar Width, Czech and Slovak Conference on Graph Theory and Combinatorics – Graphs 2004, Vyšné Ružbachy, Slovak Republic, May 23 – 28, 2004
- [14] IPOLYIOVÁ, M.: “Small“ Regular Maps, MAGIA 2004 Conference, Kočovce, Slovak Republic, October 15-17, 2004
- [15] IPOLYIOVÁ, M.: Regular Maps of a Large Planar Width, Seminar on Graph Theory, TU Ilmenau, Germany, November 23, 2004
- [16] KALICKÁ J., MINÁROVÁ, M.: New Trends and Problems in Mathematical Education at the Faculty of Civil Engineering at Slovak Technical University, International Congress on Mathematical Education ICME-10, Cobenhawn, Denmark, July 2004
- [17] KALICKÁ, J., NÁNÁSIOVÁ, O.: Covariance Matrix on OML, The Seventh International Conference on Fuzzy Sets Theory and Its Applications, Liptovský Ján, Slovak Republic, January 2004
- [18] KALINA, M., NÁNÁSIOVÁ, O.: Conditioning with Vague Events – How It Works, PRASTAN 2004 Conference, Kočovce, Slovak Republic, May 2004
- [19] KALINA, M., NÁNÁSIOVÁ, O.: Construction of Joint Distributions on MV-Algebras via Conditional Distributions, The Seventh International Conference on Fuzzy Sets Theory and Its Applications, Liptovský Ján, Slovak Republic, January 2004
- [20] KALINA, M., NÁNÁSIOVÁ, O.: Joint Distributions on MV-Algebras as Interaction of Fuzzy Events, 25th Linz Seminar on Fuzzy Set Theory, Linz, Austria, February 2004
- [21] KALINA, M., NÁNÁSIOVÁ, O.: Three-Dimensional Distributions on Quantum Logics and MV-Algebras, 3rd International Workshop on Nonstandard Logics, Prague, Czech Republic, May 2004
- [22] KALINA, M., NÁNÁSIOVÁ, O.: Conditional Measures and Joint Distributions on MV-Algebras, IPMU 2004, Perugia, Italy, July 2004
- [23] KALINA, M., NÁNÁSIOVÁ, O.: The Concept of Non-Symmetric Independence on MV-Algebras, SMPS 2004 Conference, Oviedo, September 2004
- [24] KALINA, M.: Limits of Functional Sequences in the Concept of Nearness Relations, 8th Fuzzy Days in Dortmund, Dortmund, Germany, October 2004

- [25] KNOR, M.: Distance Independent Domination in Iterated Line Graphs, Czech and Slovak Conference on Graph Theory and Combinatorics – Graphs 2004, Vyšné Ružbachy, Slovak Republic, May 23 – 28, 2004
- [26] KNOR, M.: Biembedding of Latin Squares, Graphs and Embeddings Seminar, Bratislava, Slovak Republic, June 2004
- [27] KNOR, M.: Independence in Iterated Line Graphs, Seminar on Graph Theory, FMFI UK Bratislava, Slovak Republic, March 2004
- [28] KNOR, M.: 0-1 Law for Graphs, Seminar on Graph Theory, FMFI UK Bratislava, Slovak Republic, March 2004
- [29] KNOR, M.: Biembeddings of Latin Squares and Regular Embeddings of K_{nn} , NZIMA Conference on Combinatorics and Its Applications, Lake Tapuo, New Zealand, December 14, 2004
- [30] KNOR, M.: Iterated Line Graphs, One-Day Colloquium, Open University, Milton Keynes, Great Britain, March 30, 2004
- [31] KNOR, M.: Iterated Line Graphs, Combinatorial Seminar, TU Ilmenau, Germany, November 2, 2004
- [32] KOMORNÍK, J. – KOMORNÍKOVÁ, M.: Changes in Relations Between Exchange Rates of Currencies of Visegrad Countries to Euro, 12th Slovak Statistical Conference on “Statistics and Integration”, Bardejovské Kúpele, Slovak Republic, October 4 – 6, 2004
- [33] KRIVÁ, Z.: Mathematical Models in Image Processing, PRASTAN 2004 Conference, Kočovce, Slovak Republic, May 17-21, 2004
- [34] LÍŠKOVÁ Ľ.: Exponents and One-Vertex Cayley Maps, ISCAM 2004 Conference, Slovak University of Technology, Bratislava, Slovak Republic, April 16-17, 2004
- [35] LÍŠKOVÁ Ľ.: Exponents of One-Vertex Maps and t -Balanced Maps, Czech and Slovak Conference on Graph Theory and Combinatorics – Graphs 2004, Vyšné Ružbachy, Slovak Republic, May 23 – 28, 2004
- [36] LÍŠKOVÁ Ľ.: STANEK M.: Efficient Simultaneous Contract Signing, SEC 2004 Conference, Toulouse, France, August 23 - 26, 2004
- [37] KLEMENT, E. P., MESIAR, R., PAP, E.: Triangular Norms as Special Semigroups, 25th Linz Seminar on Fuzzy Set Theory - Mathematics of Fuzzy Systems, Linz, Austria, 2004
- [38] MESIAR, R.: Fuzzy Set Approach to the Utility and the Preference Structures, 3rd International Workshop on Nonstandard Logics, Prague, Czech Republic, May 2004
- [39] MESIAR, R.: New Results in Aggregation Based on Ideas of Prof. Benvenuti, Dedicated to Prof. Pietro Benvenuti. 10th International IPMU 2004 Conference, Perugia, Italy, July 4-9, 2004
- [40] CALVO, T., MESIAR, R.: Aggregation and Defuzzification of Fuzzy Quantities, 10th International IPMU 2004 Conference, Perugia, Italy, July 4 – 9, 2004
- [41] MARICHAL, J. L., MESIAR, R.: Aggregation on Finite Ordinal Scales by Scale Independent Functions, 10th International IPMU Conference 2004, Perugia, Italy, July 4 – 9, 2004
- [42] KLEMENT, E. P., MESIAR, R., PAP, E.: A General Approach to Integration on Finite Sets, 10th International IPMU 2004 Conference, Perugia, Italy, July 4 – 9, 2004

- [43] KLEMENT, E. P., MESIAR, R., PAP, E.: Transformation of Copulas and Quasi-Copulas, 2nd International SMPS 2004 Conference, Oviedo, Spain, September 2 – 4, 2004
- [44] MESIAR, R.: Fuzzy Integrals, International MDAI 2004 Conference (plenary talk), Barcelona, Spain, August 2 – 4, 2004
- [45] MESIAR, R.: Basic Classification of Aggregations Operators and Some Construction Methods, 8th Fuzzy Days in Dortmund, Dortmund, Germany, September 29 - October 1, 2004
- [46] MIKULA, K.: Image Segmentation by Riemannian Mean Curvature Flow, Conference on Modeling-Mathematics-Computations, invited lecture, Yokohama, Japan, January 2004
- [47] MIKULA, K.: Image Segmentation by Riemannian Mean Curvature Flow, Conference on Numerical Analysis of Transport Phenomena in Complex Domains, invited lecture, Warwick, UK, March 2004
- [48] MIKULA, K.: Partial Differential Equations and Numerical Methods in Image Processing and Computer Vision, invited lecture, Seminar on Differential Equations, Vienna, Austria, June 2004
- [49] MIKULA, K.: Computational Solution of Curve and Surface Evolution Equations, invited lecture, INTERPHASE 2004 Conference, Rome, Italy, September 2004
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IX.2 Books and Textbooks

a) Scientific books and chapters in scientific books

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- [3] CALVO, T. – MESIAR, R., How to Incorporate Weights into Aggregation Process?, Soft Computing Foundations and Theoretical Aspects (K. T. Atanassov et al., eds.), EXIT, Warsaw 2004, pp. 97 - 122

b) Tutorial Textbooks

- [1] KNOR, M.: Mathematics for Managers 2. FM UK Bratislava, 2003 (in English)
- [2] KNOR, M.: Applied Mathematics (optimalization methods), Svf STU Bratislava 2004, 111 pp. (in Slovak)
- [3] TROKANOVÁ, K. - ŽEMBERY, I.: Mathematics I, II – Tutorial Handbook. SvF STU Bratislava 2004, 123 pp. (in Slovak)

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- [5] ISCAM 2004 International Conference on Applied Mathematics for Undergraduate and Graduate Students, ISCAM 2004, Bratislava, April 2004
- [6] Seminar on E-learning and MOODLE System