

**ROMAI
&
“MIRCEA CEL BATRAN” NAVAL ACADEMY
CONSTANTZA**

**THE 17th CONFERENCE ON APPLIED
AND INDUSTRIAL MATHEMATICS**

Program

**September 17-20, 2009
Constantza, Romania**

SCIENTIFIC COMMITTEE

Nuri AKSEL (Bayreuth)	Gheorghe MARIN (Bucharest)
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Mitrofan CHOBAN (Tiraspol)	Kazimierz PIECHOR (Warsaw)
Camelia CIOBANU (Constanta)	Maria PINHO (Porto)
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Adrian CONSTANTINESCU (Bucharest)	Mihail POPA (Chisinau)

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SCHEDULE

17th SEPTEMBER 2009

14:00 – 22:00 Participants' arrival and check-in

18th SEPTEMBER 2009

08:00 – 09:00 Registration

09:00 – 10:00 Opening ceremony

10:00 – 14:00 Boat trip

18:00 – 19:30 ROMAI meeting

19th SEPTEMBER 2009

09:00 – 11:00 Plenary lecture

11:00 – 11:30 Coffee break

11:30 – 13:30 Plenary lecture

14:00 – 15:30 Lunch

16:00 – 17:30 Parallel Sessions

17:30 – 18:00 Coffee break

18:00 – 19:30 Parallel Sessions

20:00 – 23:00 Reception

20th SEPTEMBER 2009

09:00 – 10:30 Parallel Sessions

10:30 – 11:00 Coffee break

11:00 – 12:30 Parallel Sessions

13:00 – 15:00 Lunch

16:00 – 17:30 Parallel Sessions

17:30 – 18:00 Coffee break

18:00 – 19:30 Parallel Sessions

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THURSDAY, 17th SEPTEMBER 2009

Place: “Mircea cel Batran” Naval Academy

14:00 – 22:00 Participants’ arrival and check-in

FRIDAY, 18th SEPTEMBER 2009

Place: “Mircea cel Batran” Naval Academy

08:00 – 09:00 Participants’ arrival and check-in

09:00-10:00 Official Opening

10:00 – 14:00 Boat trip

18:00 – 19:30 ROMAI meeting

SATURDAY, 19th SEPTEMBER 2009

09:00-11:00

Plenary lectures

Chairman: Mitrofan M. Choban

1. *Numerical Simulation of Compressible Magnetohydrodynamic Plasma Flow in a Circuit Breaker*

Rolf Jeltsch, Ralf Hiptmair, Patrick Hugueniot, Harish Kumar, Christoph Schwab, Manuel Torrilhon, Vincent Wheatley

2. *Spaces, continuity and topological games*

Alexander V. Arhangel'skii, Mitrofan M. Choban, Petar S. Kenderov

3. *Some applications of generalized rings*

Mirela Ștefănescu, Camelia Ciobanu

11:00 – 11:30 Coffee break

11:30 – 13:30

Plenary lectures

Chairman: Mirela Ştefănescu

1. *Analyzing the problem solving process: new perspectives towards problem posing*

Cristian Voica, Mihaela Singer

2. *Some Applications of Cogalois Theory to Elementary Field Arithmetic*

Toma Albu

3. *Automorphisms and derivations of homogeneous quadratic differential systems.*

Ilie Burdujan

16:00 – 19:30

Parallel Sessions

SECTION 1 - ALGEBRA, LOGIC, TOPOLOGY

16:00 – 17:30

Chairman: Dumitru Botnaru

1. Şerban Bărcănescu: *The Geometry associated to a group generated by involutions*

2. Liubomir Chiriac: *Topological paramedial grupoids with multiple identities*

3. Natalia Bobeica: *On Paramedial Loops*

4. Adrian Constantinescu: *On the going down of the algebraicity by the universally open morphisms of schemes*

5. Afrodita Iorgulescu: *The implicative - group - a term equivalent definition of the group coming from algebras of logic*

18.00-19.30

Chairman: Liubomir Chiriac

6. Parascovia Sârbu: *On π quasigroups isotopic to abelian groups*

7. Vasile Ursu: *About the abstract ordered loops*

8. Alexandru Covalschi: *About Moufang loops structure*

9. Mădălina Vrabie: *Inverse property of quasigroups (loops)*

10. Mădălina Vrabie: *Clasification of quasigroup-structure from cryptographic properties point of view*

SECTION 2 - ORDINARY DIFFERENTIAL EQUATIONS AND FINITE DIMENSIONAL DYNAMICAL SYSTEMS

16:00 – 17:30

Chairman: Ilie Burdujan

1. Dumitru Cozma: *Darboux integrability and centres in cubic differential systems with two invariant straight lines and one invariant conic*

2. Vitalie Puțuntică, Alexandru Șubă: *Classification of cubic differential systems with six real invariant straight lines along four directions*

3. Anca-Veronica Ion: *Lyapunov methods in the stability and bifurcation study of a certain delay differential equation*

4. Adelina Georgescu, George Cîrlig: *Basins of attraction in a discrete-time economic model*

18.00-19.30

Chairman: Mario Lefebvre

5. Alina Alb Lupaş: *A note on differential subordinations using Sălăgean and Ruscheweyh operators*
6. Raluca Efrem: *Numerical Algorithm to locate fixed points*
7. Carmen Roçşoreanu, Mihaela Sterpu: *Control of planar Bautin bifurcation*
8. Dumitru Bălă: *Lagrangian associated to dynamic systems of first order. Lagrange spaces*

SECTION 3 - FUNCTIONAL ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS

16:00 – 17:30

Chairman: Adriana Sporiş

1. Boris Loginov, Konopleva I.V., Rousak Yu. B: *Branching equation in the root subspace for equations nonresolved with respect to derivative and stability of bifurcating solutions*
2. Marian Ion Olaru: *About some epidemic model in space with perturbed metric*
3. Corina Lăcrămioara Chiriac: *Proximal point method for variational inequalities involving regular mappings*
4. Alexandra Scerbacova: *To the theory of one Wiener-Hopf type equation*
5. Abolfazl Mohammadi, Mehrdad Manteghian, Ali Mohammadi, Seyed Mojtaba Hoseini Nasab, *Numerical solution of two-dimensional advection-diffusion equation using simultaneously temporal and spatial weighted parameters*

18.00-19.30

Chairman: Radu Țurcan

6. Cristina Stamate: *Vector Optimization Problems*

7. Georgiana Goga: *A general mountain pass theorem for locally Lipschitz functions*

8. Sadigh Behzadi Shadan, Marjan Lofti : *Numerical Solution for solving the nonlinear Fokker-Planck equation*

9. Elena-Alexandra Frîncu, Cristina Iuliana Gherghina: *Variational Calculus Applications in Image Processing*

SECTION 4 - ANALYTICAL AND NUMERICAL METHODS IN MECHANICS; INDUSTRIAL MATHEMATICS

16:00 - 17:30

Chairman: Constantin Popa

1. Ion Crăciun: *The Second Axially-Symmetric Problem of the Micropolar Elastodynamics*

2. Constantin Popa, Aurelian Nicola: *Kaczmarz Extended versus augmented system solution in image reconstruction*

3. Lăcrămioara Grecu, Aurelian Nicola: *Some results on simultaneous algebraic techniques in image reconstruction from projections*

4. A.V. Ankilov, P.A. Verlmisov: *Dynamic and stability of deformable plates under aerohydrodynamical action*

5. Catalin Liviu Bichir, Adelia Georgescu: *Numerical results by FEM for the problem of spatial linear hydrodynamic stability for two parallel flows*

18:00 – 19:30

Chairman: Eugen Vasile

6. Ivan Secrieru, Vitalie Ticau: *The special form of matrices in computational approximate schemes*

7. Hamid Rouhparvar, Tofigh Allahviranloo, Saeid Abbasbandy: *Existence and uniqueness of fuzzy solution for linear Volterra fuzzy integral equations with Adomian decomposition method*

8. Andrei Bejan: *Switchover time decomposition in priority queueing systems*

9. Alina Bărbulescu, Pelican Elena: *IDF Curves for Romanian catchements*

10. Stelian Ion: *Computational models for Generalized Navier-Stokes fluid flow in microchannels*

SECTION 5 - THEORETICAL COMPUTER SCIENCE

16:00 - 17:30

Chairman: Eugen Mandrescu

1. Ion Dzitac, Simona Dzitac: *Semiotic flexibility versus mathematical precision*

2. Gheorghe Mishkoy, Olga Benderschi: *Generalized priority models with “Look Ahead” strategy: Numerical algorithms for busy periods*

3. Diana Bejenari, Gheorghe Mishkoi: *Numerical k - busy periods algorithms for Polling systems with semi-Markov switching*

4. Iulia Griza: *Queueing system with semi-Markov batch flow*

18:00 – 19:30

Chairman: Ion Dzitac

5. Vadim E. Levit, Eugen Mandrescu, *Some properties of palindromic independence polynomials*
6. Șerban Vlad: *Universal Regular Autonomous Asynchronous Systems: Fixed Points, Equivalencies and Dynamical Bifurcations*
7. Nicolae Objelean, *Developing tools for collection language resources and building new voice web application*
8. Alexandra Tkacenko: *Fuzzy Technique for Solving the Fractional Multiple Criteria Transportation Problem*
9. Ioan Popoviciu, *The routing algorithm in congestion control*

SECTION 6 - MATHEMATICAL EDUCATION

16:00 - 17:30

Chairman: Bălă Dumitru

1. Cristian Voica, *On the role of exploration tasks in learning mathematics*
2. Mihaela A.Ghelmez (Dumitru), Florentina Iorga, Ciprian Cojocarasu, Bogdan Dumitru: *The role of correlation in engineering problems*
3. Gheorghe Săvoiu, Liliana-Camelia Săndulescu: *Poetry and eminescian mathematics - an example of multidisciplinary education by the mathematical foundation modeling*
4. Gheorghe Săvoiu, Liliana-Camelia Săndulescu: *The mathematical background and way of thinking and the advantages of their educational value in building up a coherent system of scientific pedagogical research.*

18:00 – 19:30

Chairman: Cristian Voica

5. Valerian Oprisor, Vladu Mariana: *„Curve of Gauss” and full learning*

6. Dumitru Bălă: *Methodical aspects concerning the mathematics use into economy*

7. Neculae Dinuță: *Specific modalities of using the solving problems activities in the teaching-learning of geometry in the undergraduate education*

8. Bront Viorica – Cornelia: *Interdisciplinarity-Use of mathematics, physics, chemistry and biology in technical sciences*

SUNDAY, 20th SEPTEMBER 2009

09:00 – 12:30

Parallel Sessions

SECTION 1 - ALGEBRA, LOGIC, TOPOLOGY

09:00 – 10:30

Chairman: Toma Albu

1. Mitrofan M. Choban, Laurențiu I. Calmuțchi: *Algebras of continuous functions and compactifications of spaces*

2. Mitrofan M. Choban, Ion I. Valuță: *About periods of the development of the geometrical sciences: metodological problem*

3. Mitrofan M. Choban, Ina D. Ciobanu: *Pseudocompactness and totally boundness in topological algebra*

4. Dumitru Botnaru, Olga Cerbu: *Some properties of semireflective subcategories*

5. Dumitru Botnaru, Alina Țurcanu: *The factorization of the right product of two subcategories*

11:00 – 12:30

Chairman: Dumitru Botnaru

6. Anca Croitoru: *Set-norm continuity of set multifunctions*

7. Mefodie Rata, Ion Cucu: *A criterion for parametrical completeness in the 5-valued non-linear algebraic model of Intuitionistic logic*

8. Alexandru Lungu: *The symmetry of geometric space well-balanced by "physical" orientated load*

9. Ion Valuță: *About compatible relations in universal algebras*

10. Diana Savin: *About the dyophantine equation $x^4 - q^4 = pyr$*

SECTION 2 - ORDINARY DIFFERENTIAL EQUATIONS AND FINITE DIMENSIONAL DYNAMICAL SYSTEMS

09:00 – 10:30

Chairman: Anca-Veronica Ion

1. Mario Lefebvre: *Strictly increasing Markov as wear processes*

2. Loredana Florentina Galea: *New Properties for a Class of Multivariate Operators*

3. Raluca Mihaela Georgescu: *Study of the Lyapunov stability in a biological model*

4. Adriana-Daniela Gurgui: *The employment of Hard Limiter Control for the modification of regimes in the dynamics of Zhang's model*

5. Marcela V. Mihai: *Integral inequalities and applications*

SECTION 3 - FUNCTIONAL ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS

09:00 – 10:30

Chairman: Marian Ion Olaru

1. Irina A. Leca: *Solvability of Hammerstein equations with angle-bounded kernel*
2. Ciprian Sebastian Țurcan, Radu Țurcan: *Black scholes stock option pricing model*
- 3 Radu Țurcan: *Cauchy equations - The laminar flow equations for the sluggish environment*
4. Ligia-Adriana Sporis, Ali Beazit: *Some results on linear approximation processes in Banach spaces*
5. Ligia-Adriana Sporis, Ali Beazit: *About some numerical results on ADI - Douglas type method*

SECTION 4 - ANALYTICAL AND NUMERICAL METHODS IN MECHANICS; INDUSTRIAL MATHEMATICS

09:00 – 10:30

Chairman: Ion Crăciun

1. Ana-Maria Moșneagu: *On the numerical approach of the nonlinear Kuramoto-Sivashinski equation*
2. Veacheslav Zelentsov, T.Ya. Datsko: *Calculation of adsorption isotherms of NaF from aqueous solutions by the samples of aluminum oxide*
3. Angela Muntean: *The wind driven circulation on the central region of Romanian Black Sea shore*
4. Adela Ionescu: *Computational approach of mixing behavior in excitable media - case analysis for the vortical flow*

5. Romulus Militaru, Liviu Adrian Calin, George Cristian Calugaru, Adrian Georgescu: *Efficient Computer Assisted Numerical Calculus through Numerical Engineering Software*

11:00 – 12:30

Chairman: Constantin Pătrășcoiu

6. Constantin Moroșanu: *An inverse problem in the phase-field transition system; the 2D case*

7. Eugen Vasile: *Dynamical system associated to a central field motion - Analytical treatment for a four type forces*

8. Ilie Burdujan: *A new approach of some problems in fluid mechanics with laboratory source*

9. A. Sorrentino, D. Pelliccia, F.Scarinci, M. Ilie, I. Vasile, E. Vasile, M. Fratini, I. Burkeeva, A. Cedola, S. Lagomarsino, *Modeling of an x-ray waveguide for phase contrast microscopy with laboratory source*

10. Emilia-Rodica Borșa, Diana-Luiza Borșa: *Comparative Analysis of Thin-Fluid Flow with and without Surface Tension Gradient*

SECTION 5 - THEORETICAL COMPUTER SCIENCE

09:00 – 10:30

Chairman: Șerban Vlad

1. Grigore Albeanu: *Recent software vulnerability models*

2. Cristian Vidrașcu: *Concurrency Analysis for Coloured Petri Nets*

3. Nicolae Popescu-Bodorin: *Searching for 'Fragile Bits' in Iris-Codes Generated with Gabor Analytic Iris Texture Binary Encoder*

4. Tiberiu Radulescu, Vasile Buzuloiu: *Powerful Extentions of the Gradient Vector Flow and Vector Field Convolution Snakes for the Segmentation of the Highly Non-convex Structures in Biomedical Images*
5. Olesia Groza, Gheorghe Mishkoy: *Static and dynamic priorities in the queueing system models*

SECTION 6 - MATHEMATICAL EDUCATION

09:00 – 10:30

Chairman: Neculae Dinuță

1. Consuela Luiza Voica, Maria Angheluță: *Pre-service teachers preparation: a perspective on teaching practice mentoring*
2. Marcel Teleucă, Larisa Sali: *Psychopedagogical aspects of the organization and conducting of mathematical battles in schools*
3. Larisa Sali: *About the particularity of utilization of humor at the mathematical extracurricular activities*
4. Ion Valuță: *The role of algebraic concepts in the development of mathematics and informatics*

11:00 – 12:30

Chairman: Gheorghe Săvoiu

5. Gheorghe Samoilescu, Marian Cață, Camelia Ciobanu: *About the importance of Linear Algebra, in the process of training the future graduates of tehcnical universities*
6. Marian Cață, Gheorghe Samoilescu, Camelia Ciobanu: *Mathematics- a major problem of current education.*
7. Elena Pufu, Monica Gruia *Significance of the area interdisciplinary Curriculum Natural Sciences*

16:00 – 17:30

Parallel Sessions

SECTION 1 - ALGEBRA, LOGIC, TOPOLOGY

Chairman: Camelia Ciobanu

1. Evelina Tikhonov: *The description of the unary functions of 16 order topological boolean algebra with one open atom*
2. Evelina TiKhonov, Mefodie Rață: *An iterative maximum algebra functions of topological Boolean algebra of order 16 with an open atom*
3. Adriana Cățaș: *On Radii of Starlikeness and Close-to-Convexity of a Subclass of Analytic Functions with Negative Coefficients*
4. Cristina Flaut: *Some remarks about Frobenius theorem*

**SECTION 4 - ANALYTICAL AND NUMERICAL
METHODS IN MECHANICS; INDUSTRIAL
MATHEMATICS**

Chairman: Constantin Moroșanu

1. Nickolae Enaki, Marcela Cerbu: *The excitation of two individual atoms in the Rydberg blockade*
2. Constantin Pătrășcoiu: *Mathematical models for chaotic economical system.*
3. Constantin Pătrășcoiu: *New analytical models of cavitation erosion prediction*
4. Ion Grigore: *Experimental aspects of temperatures, in the break system of IAR-99 landing gear*
5. Ion Grigore, Amado Stefan, *Modeling heat transfer in braking system of IAR-99 plane, during phases of brakes*

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