

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

**THE 17<sup>th</sup> CONFERENCE ON APPLIED  
AND INDUSTRIAL MATHEMATICS**

# **Program**

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

## ***SCIENTIFIC COMMITTEE***

Nuri AKSEL (Bayreuth)	Gheorghe MARIN (Bucharest)
Catherine BUNDLE (Basel)	Nenad MLADENOVICI (Birmingham)
Serban BASARAB (Bucharest)	Ioana MOISIL (Sibiu)
Dumitru BOTNARU (Chisinau)	Gheorghe MOROSANU (Iasi)
Tassos BOUNTIS (Patras)	Ingo MULLER (Berlin)
Wladimir-Georges BOSKOFF (Constanta)	Virgil OBADEANU (Timisoara)
Vasile BRANZANESCU (Bucharest)	Lidia PALESE (Bari)
Ilie BURDUJAN (Iasi)	Zbigniew PERADZYNSKI (Warsaw)
Adrian CARABINEANU (Bucharest)	Titus PETRILA (Cluj-Napoca)
Vergil CHITAC (Constanta)	Emilia PETRISOR (Timisoara)
Mitrofan CHOBAN (Tiraspol)	Kazimierz PIECHOR (Warsaw)
Camelia CIOBANU (Constanta)	Maria PINHO (Porto)
Sanda CLEJA-TIGOIU (Bucharest)	Constantin POPA (Constanta)
Adrian CONSTANTINESCU (Bucharest)	Mihail POPA (Chisinau)

Ioan DZITAC (Oradea)	Kumbakonam RAJAGOPAL (Texas)
Margarida FERREIRA (Porto)	Mefodie RATA (Chisinau)
Constantin FETECAU (Iasi)	Liliana RESTUCCIA (Messina)
Adelina GEORGESCU (Bucharest)	Gheorghe SAMOILESCU (Constanta)
Dan HAULICA (Constanta)	Valeriu SAVA (Iasi)
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## ***SCHEDULE***

### **17<sup>th</sup> SEPTEMBER 2009**

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

### **18<sup>th</sup> 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

### **19<sup>th</sup> 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

### **20<sup>th</sup> 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

## ***CONTACT PERSONS***

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## **THURSDAY, 17<sup>th</sup> SEPTEMBER 2009**

Place: “Mircea cel Batran” Naval Academy

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

## **FRIDAY, 18<sup>th</sup> 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, 19<sup>th</sup> 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 Ștefănescu**

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. Șerban 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  $\pi$  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, 20<sup>th</sup> 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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