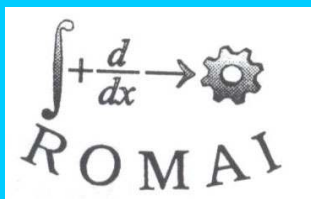


# The 16<sup>th</sup> Conference on Applied and Industrial Mathematics

## CAIM 2008

Oradea, October 9-11, 2008,  
organized by



**Romanian Society of Applied  
and Industrial Mathematics**

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**"Agora" University, Oradea  
Romania**

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**Technical College "Transilvania", Oradea**

## PROGRAM

### List of participants

Oradea  
2008

## GENERAL PROGRAM

DATE	HOUR	ACTIVITY	PLACE
Oct. 08	14:00-22:00	Registration of participants	TCT*
Oct. 09	08:00-09:00	Registration	TCT
	09:00-10:00	Official Opening	TCT
	10:00-10:30	Coffee break	TCT
	10:30-13:30	Plenary invited lectures	TCT
	14:00	Lunch	TCT
	16:00-17:30	Parallel sessions	TCT
	17:30-18:00	Coffee break	TCT
	18:00-19:30	Parallel sessions	TCT
	20:00	Dinner	TCT
Oct. 10	09:00-19:00	EXCURSION	BH County
Oct. 11	09:00-10:30	Parallel sessions/ Meeting with math. teachers	TCT
	10:30-11:00	Coffee break	TCT
	11:00-13:30	Parallel sessions	TCT
	14:00	Lunch	TCT
	16:00-17:30	Parallel sessions	TCT
	17:30-18:00	Coffee break	TCT
	18:00-19:30	Parallel sessions	TCT
20:00	Dinner	TCT	
Oct. 12	08:00-12:00	Departure of participants	

**\*TCT = Technical College “Transilvania”, Oradea  
Cazaban street, No. 48**

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**Thursday, October 9**

**Place: Technical College “Transilvania” Oradea, Canteen**

**09.00-10.00**

**Official Opening**

**10.00-10.30**

**Coffee break**

**10.30-13.30**

**Plenary lectures**

1. *Selections of lower semi-continuous mappings and compactness*

Ciobanu (Choban) Mitrofan, Tiraspol State University, Chisinau, Moldova, Ekaterina P. Mihaylova, Stoyan I. Nedev, Institute of Mathematics and Informatics, Bulgaria.

2. *Use of reduction schemes for stability investigation*

Vladilen A. Trenogin, Institute of Steel and Alloys, Moscow, Russia

3. *A survey on connections between hypergroups and geometry*

Mirela-Filofteia Ștefănescu, “Ovidius” University, Constanta, Romania

4. *Pseudoperturbative iteration methods in generalized eigenvalue problems.*

Boris Loginov, D.V. Makeeva, State Technical University, Ulyanovsk, Russia

## Section 1 Algebra, Logic, Topology

**Thursday, October 9**

**16.00-17.30**

**Chairman:** Mitrofan Ciobanu

1. Plenary lecture: L. Chiriac, *Resolvability of totally bounded groupoids with invertibility properties.*
2. A. Panahi, T. Allahviranloo, H. Rouhparvar, *Solving fuzzy system of linear equations.*
3. A. Cătaș, *On a differential sandwich theorem associated with multiplier transformations.*

**18.00-19.30**

**Chairman:** Dumitru Botnaru

4. Plenary lecture: V. I. Ursu, *The quasiidentities of the nilpotent Moufang loop.*
5. D. Fechete, I. Fechete, *Semidirect products and trivial extensions. A categorial overview.*
6. A. Alb-Lupaș, A. Cătaș, *On a subclass of analytic functions defined by a generalized Salagean and Ruscheweyh operator.*

**Saturday, October 11**

**9.00-10.30**

**Chairman:** Vladimir Izbaș

7. Plenary lecture: D. Botnaru, E. Baes, O. Cerbu, *Operations in the lattice of the reflective subcategories.*

8. L. Chiriac, N. Bobeică, *On topological groupoids and  $(n,m)$ -homogeneous isotopies.*

9. C. Ciobanu, *The Frattini theory for  $p$ - Lie algebras.*

**11.00-13.30**

**Chairman:** Liubomir Chiriac

10. Plenary lecture: A. Lungu, *Transformations of geometric space well-balanced by scalar "physical" load.*

11. L. I. Calmuțchi, M. Ciobanu (Choban), *On remainders of Wallman compactifications of  $T_0$ -Spaces.*

12. D. Botnaru, O. Cerbu, *Some properties of semireflexive product of two subcategories.*

13. M. Braniște, A. Lungu, *On the problem of geometrical interpretation of groups of  $\bar{P}$ -symmetry with "indexed" figures.*

14. D. Botnaru, A. Țurcanu, *The lattice of bicategory structures.*

**16.00-17.30**

**Chairman:** Zakhirov Mukhamadi

15. Plenary lecture: V. Izbaș, M. Vrabie, *Some structures of operations.*

16. V. Shcherbacov, *On 1a Belousov problem.*

17. D. I. Pavel, *Compactifications of  $G$ -spaces.*

**18.00-19.30**

**Chairman:** Camelia Ciobanu

18. Plenary lecture: M. Zakhirov, *Generalized quaternions, corresponding to them MES and applications.*

19. G. Belyavskaya, A. Tabarov, *On groupoids with a Moufang identity.*

20. O. Cerbu, *Categorical aspects of the semireflexive product.*

21. D. Fechete, I. Fechete, *Generalized semidirect products.*

22. A. Babiş, *On CH-quasigroups of finite special rank.*

23. A. Constantinescu, *Local subrings of function fields and some questions related to the problem of the finite generation of subalgebras.III.*

24. H. Shaker, *On polynomial factorization and topology of complement space.*

25. M. Hussain, *On (a,d)-vertex-antimagic total labeling of cycle with chords.*

## Section 2 Ordinary Differential Equations and Finite Dimensional Dynamical Systems

Thursday, October 9

**16.00-17.30**

**Chairman:** Natalia Gherstega

1. Plenary lecture: O. V. Diaconescu, M. N. Popa, *The particular invariant  $GL(2,R)$ -integral for two-dimensional nonlinear differential system.*
2. A. Ionescu, *New features in simulating the behavior of 3d turbulent mixing.*
3. T. E. Badokina, B. V. Loginov, O. V. Makeeva, *Green functions construction for divergence problems in aeroelasticity.*

**18.00-19.30**

**Chairman:** Anca-Veronica Ion

4. Plenary lecture: S.-C. Nartea, A. Georgescu, *Further results on approximate inertial manifolds for the FitzHugh-Nagumo model.*
5. M. Sterpu, C. Roçşoreanu, *Bifurcation in a nonlinear business cycle model.*
6. V. Puțuntică, A. Şubă, *Classification of the cubic differential systems with seven real invariant straight lines.*

## Saturday, October 11

### 09.00-10.30

**Chairman:** Adelina Georgescu

7. Plenary lecture: I. Burdujan, *Quadratic dynamical systems and commutative algebras.*

8. V. Baltag, Iu. Calin, *The transvectants and the first integrals for Darboux systems of differential equations.*

9. D. Bălă, *The study of the stability of some economic models.*

### 11.00-13.30

**Chairman:** Mihaela Sterpu

10. Plenary lecture: K. Tchizawa, *On a local model of a slow-fast system in  $R^{2+2}$ .*

11. C. Pătrășcoiu, *Interaction between economic dynamical systems.*

12. M. Trifan, G.-V. Cârlig, D. Lascu, *Nonhyperbolic singularities of Bogdanov-Takens type in an epidemic model.*

13. N. Gherstega, V. Orlov, *Invariant conditions for the dimensions of the  $Aff(2, R)$ -orbits for a quadratic differential system.*

14. A.-D. Gurgui Costea, *The impact of limiter control and stochastic limiter in inventory model with rational expectations.*



**16.00-17.30**

**Chairman:** Kiyoyuki Tchizawa

15. D. Cozma, *The cubic differential system with two invariant conics.*

16. I. A. Ioja, *Some remarks on the rigid body with one control.*

17. N. Vornicescu, *An optimal control problem.*

18. R. Efrem, *Numerical approximation of Poincaré maps.*

**18.00-19.30**

**Chairman:** Ilie Burdujan

19. A. Khastan, F. Bahrami, K. Ivaz, *Solving higher-order fuzzy differential equations under generalized differentiability.*

20. C.-L. Bichir, *A numerical study by FEM and FVM of a problem which presents a simple limit point.*

21. R. Şendruţiu, *On a certain differential inequality.*

22. K. Andriopoulos, T. Bountis, N. Papadopoulos, *Theory of oligopolies: dynamics and stability of equilibria.*

23. A. Corlan, B. Amuzescu, A. Georgescu, M.-N. Popescu, Gh. Nistor, *Further results on the dynamics for a model in electro-cardiology.*

## Section 3 **Functional Analysis and Partial Differential Equations**

**Thursday, October 9**

**16.00-17.30**

**Chairman:** Mario Lefebvre

1. Plenary lecture: A. N. Andronov, L. R. Kim-Tyan, B. V. Loginov, *Bifurcation and stability in the problem on capillary-gravity waves on a surface of floating deep fluid layer.*

2. S.-O. Corduneanu, *Systems of equations involving almost periodic functions.*

3. D. Ijacu, *Some differential games with stochastic perturbation associated with non adapted solutions.*

**18.00-19.30**

**Chairman:** A.M. Vaziri

4. Plenary lecture: M. Lefebvre, *Avoiding bankruptcy at all costs.*

5. L. Ciurdariu, *About some particular classes of bounded operators on pseudo-Hilbert spaces.*

6. A. Muntean, M. Bejan, *Ekman currents on the Romanian Black Sea shore.*

## Saturday, October 11

### 9.00-10.30

**Chairman:** Boris Loginov

7. Plenary lecture: A.-V. Ion, *Induced trajectories versus approximate inertial manifolds in modified Galerkin methods.*

8. S. Drăgan, *On exponential trichotomy of  $C_0$ -semigroups in locally-convex spaces.*

9. Iu. Griza, V. S. Koroliuk, A. V. Mamonova, Gh. Mishkoy, *Queuing systems with semi-Markov flow in average and diffusion approximation schemes.*

### 11-13.30

**Chairman:** Iulia Griza

10. P. A. Velmisov, J. A. Kazakova, *Some classes of the solutions of gas dynamic equations* (presented by B. Loginov).

11. A. V. Kamyad, A. M. Vaziri, M. Zamirian, *A relatively global optimization approach for nonlinear programming.*

12. B.-Gh. Munteanu, *Convergence to stable distributions in Mallows distance.*

13. A.-V. Ion, *Lyapunov stability of the zero solution of a perturbed abstract parabolic non-autonomous equation.*

14. I.-M. Olaru, V. Olaru, *About some functional integral equation in spaces with a perturbed metric.*

15. I. Gutsul, E. Tikhonov, *About totally geodesical embeddings of compact 2-manifolds in compact 3-manifolds.*

**16.00-17.30**

**Chairman:** Loredana Ciurdariu

16. V. A. Trenogin, N. N. Avxentieva, L. R. Kim-Tyan, *Use of Jordan chains in stability and bifurcation problems.*

17. L.-F. Galea, *Good and special WPO for Bernstein operators in  $p$  variables.*

## Section 4 Analytical and Numerical Methods in Mechanics ; Industrial Mathematics

Thursday, October 9

**16.00-17.30**

**Chairman:** Seyed Amirodin Sadrnejad

1. Plenary lecture: V. I. Zelentsov, T. Ya. Datsko, *Equation of the constant of adsorption equilibrium for the system aqueous solution NaF – aluminium oxide.*

2. C. Pătrășcoiu, *A generalised mathematical cavitation erosion model.*

3. L. Grecu, *Error analysis when the boundary element method is used to solve the problem of the compressible fluid flow around obstacles.*

**18.00-19.30**

**Chairman:** Luminita Grecu

4. Plenary lecture: V. Geru, E. Naval, L. Smolina, M. Popovscaia, *On developing macroeconomic growth model in visual basic for applications framework.*

5. R. Țurcan, C. Țurcan, *Mathematical – physical descriptions of the main process regarding the transport of pollutants into aquifers.*

6. S. Dzitac, T. Vesselenyi, I. Dzitac, M. Pârv, *Reliability simulation software system for electric plants using fuzzy algorithms.*

## Saturday, October 11

### 09.00-10.30

**Chairman:** Ion Crăciun

7. Plenary lecture: S. A. Sadrnejad, *Mathematical and numerical model of rock and concrete mechanical behaviour by multi-plane framework.*

8. E.-R. Borşa, *Lubrication model for the flow driven by a high surface tension.*

9. A. M. Dumitrescu, M. A. Ghelmez, *Computer assisted design of a digital thermostate.*

### 11.00-13.30

**Chairman:** Costică Moroşanu

10. Plenary lecture: I. Crăciun, *Weak solutions of the mixed boundary value problems of plane micropolar elasticity.*

11. I.-F. Dragomirescu, A. Georgescu, *On the stability of viscous flows in curved channels.*

12. M. A. Ghelmez (Dumitru), O. Danila, C. Nenciu, A. Sterian, *Modelling automate bus suspension with Matlab.*

13. I.-F. Dragomirescu, *Analytical and numerical solutions to an electrohydrodynamic stability problem.*

14. M. Fonoberova, *Algorithms for finding optimal flows on dynamic networks.*

**16.00-17.30****Chairman:** Horațiu Tănăsescu

15. Plenary lecture: C. Moroșanu, *Numerical simulation of the thickness accretions in the primary and secondary cooling zones of a continuous casting machine via phase-field transition system.*

16. V. Pațiu, G. Rîbacova, *The finite difference method for objects detecting in a given image.*

17. E. Naval, *Balance of payment constrained growth for Moldova in the framework of Thirlwall model.*

**18.00-19.30****Chairman:** Mihaela A. Ghelmez (Dumitru)

18. Plenary lecture: H. Tănăsescu, N. Tănăsescu, *Physics for stern flow improvement.*

19. G. Ivanova, *Stochastic approximation for identification of convection heat transfer coefficient in the secondary cooling zone of steel continuous casting process.*

20. M. Zamirian, A. V. Kamyad, A. M. Vaziri, *A numerical method for obtaining the generalized derivative of nondifferentiable functions.*

21. M. Popovscaia, *Employment of the Romer model for the analysis of the dynamics of the economic growth in the republic of Moldova.*

22. P. A. Velmisov, A.V. Ankilov, *Stability of elastic elements of wing profile with time delay of bases reactions* (communicated by Boris Loginov).

23. T. Ioana, T. Petrila, *Numerical method for viscous free surface flows with a hydrofoil.*
24. M. V. Macarie, *A survey on the three bodies problem.*
25. B. Amuzescu, A. Corlan, M.-N. Popescu, Gh. Nistor, A. Georgescu, *Estimation of ion conductance of cardiomyocytes.*
26. S. A. A. Oloomi, A. Saboonchi, A. Sedaghat, *Modeling thermal radiative properties of nano scale multilayer with coherent formulation.*



## Section 5 Theoretical Computer Science

**Thursday, October 9**

**16.00-17.30**

**Chairman:** Gheorghe Mishkoy

1. Plenary lecture: I. Moisil, *Advanced statistical methods for web mining.*

2. A. Garrido, *Asymmetry level, a new fuzzy measure.*

3. C. Săraru, *Object classification methods with application in astronomy.*

**18.00-19.30**

**Chairman:** Ioana Moisil

4. Plenary lecture: C. Vidraşcu, *Petri nets as models for concurrent and distributed systems.*

5. M. Luţă, E. M. Popa, C.-A. Drăgan, C.-B. Milian, *Financial analysis and cost of quality.*

6. A. Tkacenko, *Some problems of nonlinear optimization.*

**Saturday, October 11**

**09.00-10.30**

**Chairman:** Şerban Vlad

7. Plenary lecture: Gh. Mishkoy, S. Giordano, *New developments in queueing analysis: generalized models and algorithms. Results and problems.*

8. M. Kere, *A Petri nets application in the mobile telephony.*

9. M.-I. Andreica, *Algorithmic techniques for several optimization problems regarding distributed systems with tree topologies.*

**11.00-13.30**

**Chairman:** Valeriu Ungureanu

10. Plenary lecture: I. Dzitac, *Interaction between mathematics and artificial intelligence: fuzzy logic versus Boolean logic.*

11. N. Popescu-Bodorin, *Fast K-means image quantization algorithm and its application to iris segmentation.*

12. M. Ilie, S. Opreşescu, A. Masci, L. Nardi, M. Montereali, V. Wastarella, E. Vasile, V. Foglietti, R. Pilloton, *Processing of experimental data from an electrochemical biosensor.*

13. R. Țurcan, C. Țurcan, *Economical problems and conditioned optimization.*

14. Gh. Mishkoy, V. Rykov, *Some characteristics for polling systems with an exhaustive service and semi-Markov switchings.*

**16.00-17.30**

**Chairman:** Ioan Dzitac

15. Plenary lecture: S. E. Vlad, *Topics in asynchronous systems theory  $\cap$  dynamical systems theory.*

16. N. Popescu-Bodorin, *Lossless DCT-based image compression.*

17. V. Ungureanu, *Solution principles for simultaneous and sequential games mixture.*

18. P. Sajin, *Linear discriminant analysis and logit analysis in bankruptcy prediction.*
19. G. Albeanu, *On the quasi-Halley method for solving nonlinear equations.*
20. S. Cornoiu, *The similarity of XML-based documents in finding the legal information.*

## Section 6 **Mathematical Education**

### **Thursday, October 9**

**16.00-17.30**

**Chairman:** Ion Valuță

1. Plenary lecture: C. Voica, *Romanian research in mathematics education - A Cinderella?*
2. M. A. Ghelmez (Dumitru), E. Slavnicu, A. M. Dumitrescu, *Computer and internet in scientific research of students.*
3. C.-L. Voica, C. Voica, *Difficulties in formulating “good problems”.*

**18.00-19.30**

**Chairman:** Cristian Voica

4. Plenary lecture: I. Valuță, *Algebraic concepts in history of mathematics.*
5. M. A. Rodionov, S. L. Velmisova, *Development of the theme in the process of geometrical problems solution* (communicated by Boris Loginov).
6. C.-L. Voica, M. Angheluță, *Tradition and modern in evaluation in mathematics.*

### **Saturday, October 11**

**09.00-10.30**

**Chairman:** Cristian Voica

Debate on: *“The state of the mathematical education in Romania”.*

**11.00-13.30**

**Chairman:** Consuela Voica

7. Plenary lecture: L. Săndulescu, *In memoriam, Professor Eugen Onofraș.*

8. C.-A. Sultana, A. Florea, *The efficiency of using educational software on the teaching process.*

9. M. Lefebvre, *On the influence of the type of exams on the performance of students.*

10. R. Țurcan, C. Țurcan, *Quasicomplete study of cycloid.*

11. D. Jeder, *The use of student-focused strategies in mathematics education.*

**16.00-17.30**

**Chairman:** Liliana Săndulescu

12. M. Predescu, *Some facts about educational management.*

13. R. Bălan, *Classic and modern in the construction of stellated polygons.*

14. N. Ile, C. Bercovici, *The child and teenager ask ... Young people ask themselves ... Grown up and old people reflect ... Mathematics of nowadays, where is it going?*

15. N. Sămărescu, *Spreadsheet in American school.*

16. V. Bront, *Mathematics education: from intuition to rigor for usefulness.*

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