

The 25rd Conference on Applied and Industrial Mathematics

CAIM 2017

September 14–17, 2017, Iași

Programme

General Schedule

Thursday, September 14, 2017

14.00-23.00 **Registration**
R body building of UAIC
26, Alexandru Lăpușneanu, 700057 Iași

Friday, September 15, 2017

09.00-10.00 **Opening Ceremony, R502, R body building
26, Alexandru Lăpușneanu, 700057 Iași**

10.00-11.20 **Plenary Lectures**

11.20-11.40 *Coffee Break*

11.40-13.00 **Plenary Lectures**

13.00-14.40 *Lunch*

14.40-16.40 **Communications&Mini-Symposia**

16.40-17.00 *Coffee Break*

17.00-19.40 **Communications&Mini-Symposia**

Saturday, September 16, 2017

09.00-10.20 **Plenary Lectures**

10.20-10.40 *Coffee Break*

10.40-12.00 **Plenary Lectures**

12.10-13.10 **Communications**

13.10-14.20 *Lunch*

14.20-16.20 **Communications**

16.20-16.40 *Coffee Break*

16.40-18.20 **Communications**

18.30-19.30 **ROMAI General Assembly**

19.30-22.50 **Official Dinner**

Sunday, September 17, 2017

Excursion: Iași city tour

Departure of participants

Scientific Communications

Plenary Lectures
Friday, September 15

Room R502

Chairman: Costică Moroşanu

10.00- Viorel Barbu
10.40 *Nonlinear Diffusion Flows*

10.40- Rolf Jeltsch
11.20 *Multi-level Monte Carlo methods for Uncertainty quantification two-phase flow in porous media*

Chairman: Călin Ioan Gheorghiu

11.40- Mitrofan Choban and Ivan A. Budanaev
12.20 *Parallel Decompositions of Pairs of String and their Applications*

12.20.- Dietmar Hoemberg
13.00 *European collaboration in industrial and applied mathematics*

Saturday, September 16

Room R502

Chairman: Carmen Roşoreanu

09.00- Horia-Nicolai Teodorescu
09.40 *Approximators and interpolators with fuzzy logic systems. Applications*

09.40- Alain Miranville
10.20 *The Cahn-Hilliard equation in image inpainting*

Chairman: Anca Croitoru

10.40- Vasile Postolică
11.20 *A Survey on the Best Approximation by Splines*

11.20- Irina Meghea
12.00 *Treatise on Differential calculus and Integral calculus for mathematicians, physicists, chemists and engineers in ten volumes*

Mini-Symposium: Biomathematics
Friday, September 15

Room R306

Chairman: Paul Georgescu & Gabriel Dimitriu

14.40- 15.00	Narcisa C. Apreutesei <i>Reaction-Diffusion Waves with Nonlinear Boundary Conditions in Connection with Inflammatory Diseases</i>
15.00- 15.20	Gabriel Dimitriu <i>Reduced order modeling applied to predator-prey systems in the presence of generalist predators</i>
15.20- 15.40	Adela Ionescu <i>The Feedback Linearization for Dynamical Systems Associated to Evolution Epidemics. The Case of Kermack McKendrick Model</i>
15.40- 16.00	Larisa Cheregi <i>A clinical interpretation and the Lyapunov function for the blood-glucose control system</i>
16.00- 16.20	Lingyun Xiong <i>Modelling Neural Crest Cell Migration in Early Embryonic Development</i>
16.20- 16.40	Hong Zhang, Prince Harvim, Paul Georgescu <i>Schistosomiasis in Ghana: modelling and prevention</i>

Mini-Symposium: Dynamical Systems
Friday, September 15

Room R215

Chairman: Dana Constantinescu

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| 14.40-
15.00 | Dana Constantinescu
<i>Intrinsic versus numerical chaos in discrete models associated to continuous dynamical systems</i> |
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| 15.00-
15.20 | Bucur Maria-Liliana
<i>Asimptotic behavior of some dynamical processes</i> |
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| 15.20-
15.40 | Florian Munteanu
<i>About Symmetries, Pseudosymmetries and Conservation Laws in k-Cosymplectic Geometry</i> |
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| 15.40-
16.00 | Catalin Sterbeti
<i>Osserman generalized locally symmetric spaces with the generalized 2-nilpotent Jacobi operator</i> |
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| 16.00-
16.20 | Raluca Efrem
<i>Hidden attractor. Localization problem</i> |
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| 16.20-
16.40 | Adela Ionescu
<i>The Feedback Linearization for the Dynamical System Associated to the Mixing Flow Model</i> |
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Mini-Symposium: Numerical Analysis, an art or merely a science?
Friday, September 15

Room R317

Chairman: Călin-Ioan Gheorghiu

14.40- 15.00	Călin-Ioan Gheorghiu <i>Accurate spectral solutions to a class of singular nonlinear boundary value problems on unbounded domain</i>
15.00- 15.20	Raisa Pașcan <i>A FEM approach to fcc-single crystal subjected to large strains</i>
15.20- 15.40	Stefan Gicu Cruceanu, Dorin Marinescu, and Stelian Ion <i>A class of non-homogeneous hyperbolic systems with source terms. Analytical and numerical solution</i>
15.40- 16.00	Vladimir Pațiu, Galina Rîbacova <i>Finite-differences for convection-diffusion equation</i>
16.00- 16.20	Olga Danilkina, Gilbert D. Acheampong <i>Numerical Approximation of the Solution to one Nonlocal Problem for a Parabolic Equation</i>
16.20- 16.40	Costica Moroșsanu <i>Stability and errors analysis of two iterative schemes of fractional steps type associated to a nonlinear reaction-diffusion equation</i>

Partial Differential Equations
Saturday, September 16

Room R306

Chairman: Stelian Ion

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- 15.20-** **Ahmad Jafarian, Safa Measoomy Nia**
15.40 *Fractional order integro-differential equations solution by artificial neural networks approach*
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- 15.40-** **Laurențiu Emanuel Temereanca**
16.00 *Approximation of the controls for the wave equation with a potential*
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- 16.00-** **Indeewar Kumar**
16.20 *Boundary Layer Flow in the Vicinity of the Forward Stagnation Point of the Spinning and Translating Sphere*
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- 16.40-** **Mohammed Derhab, Mohammed Nehari**
17.00 *Existence of Minimal and Maximal solutions for Quasilinear Elliptic Equation with Nonlocal Boundary Conditions on Time-Scales*
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ODEs, Dynamical Systems
Friday, September 15

Room R215

Chairman: Dumitru Cozma

17.00- S. Aisagaliev, A. Kabidoldanova
17.20 *On solving the variational problem*

17.20- Bianca Satco
17.40 *On the solution set of differential equations driven by measures*

17.40- Mihaela Sterpu, Carmen Roşoreanu
18.00 *Heteroclinic orbits corresponding to a double-zero with symmetry of order two bifurcation*

18.00- Szilárd László, R.I. Boţ, E.R. Csetnek
18.20 *Second order dynamical systems with penalty terms associated to monotone inclusions*

18.20- Johnny Henderson, Rodica Luca, Alexandru Tudorache
18.40 *Positive solutions for a system of fractional differential equations with multi-point boundary conditions*

18.40- Cristian Vladimirescu
19.00 *Limits of solutions to a nonlinear second-order ODE*

19.00- Vedat Suat Erturk
19.20 *Solution of a Bratu-like equation arising in electrospinning process by the variation of parameters method*

19.20- Yaroslav I. Bihun
19.40 *Multifrequency systems of differential equations with transformed argument*

ODEs, Dynamical Systems
Saturday, September 16

Room R215

Chairman: Mihaela Sterpu

12.10-12.30 **Mircea Lupu, Gheorghe Radu**
Inverese Problems and Mehods in Cinematics or Dynamic Systems Studies

12.30-12.50 **Şerban E. Vlad**
How the (anti)morphisms of Boolean (anti)evolution functions act on invariant sets

12.50-13.10 **Calistru Catalin**
Optimal Tuning of Robust Controllers Using Interval Analysis

Room R215

Chairman: Şerban Vlad

14.20-14.40 **Vadim Repeşco**
Canonical forms of cubic differential systems with invariant straight lines of total multiplicity seven along one direction

14.40-15.00 **Dumitru Cozma, Anatoli Dascalescu, Vadim Repeşco**
Center conditions and phase portraits in a cubic differential system with invariant algebraic curves

15.00-15.20 **Natalia Neagu, Victor Orlov, Mihail Popa**
Stability of unperturbed motion for a differential system with nonlinearities of degree four

15.20-15.40 **Vitalie Puţuntică**
Qualitative investigation of cubic differential systems with degenerate infinity and six real invariant straight lines along four directions

15.40-16.00 **Alexandru Şuba and Silvia Turuta**
Cubic differential systems with a weak focus and an affine real invariant straight line of maximal multiplicity

16.00-16.20 **Alexandru Şuba and Olga Vacaraş**
Quartic differential systems with an affine real invariant straight line of algebraic multiplicity four

16.40-17.00 **Ihor Cherevko, Andrew Dorosh, Larysa Piddubna**
Existence and approximation of a solution of the boundary value problems for neutral delay integro-differential equations

Mathematical Modeling
Friday, September 15

Room R306

Chairman: Eugen Kuznetov

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| 17.00-
17.20 | Alexandra Baluta, Diana Rotaru, Mihaela Ilie, Dragos Falie, Eugen Vasile
<i>Analytic and numeric temporal analysis of the transition probability between two states of a quantum system</i> |
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| 17.20-
17.40 | Alexandra Băluță, Diana Rotaru, Mihaela Ilie, Drago Fălie and Marta Zamfir
<i>Algorithm for increasing the quality of optical trap images</i> |
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| 17.40-
18.00 | Marian Mureșsan
<i>Hyperbolic equations by Mathematica</i> |
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| 18.00-
18.20 | Dmytro I. Anpilohov
<i>Fourier analysis of steady vibrations of a biharmonic oscillator</i> |
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| 18.20-
18.40 | Alin Pohoata, Daniel Dunea, Emil Lungu
<i>An online air pollution monitoring system with an integrated early warning mechanism based on hybrid neural networks</i> |
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| 18.40-
19.00 | H.A. Simonyan, M.Z.Petrosyan, G.H.Torosyan
<i>Mathematical Model of Adsorption in Wastewater Treatment</i> |
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| 19.00-
19.20 | Subenoy Chakraborty, Subhajit Saha
<i>A model of the Universe with adiabatic particle creation mechanism</i> |
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| 19.20-
19.40 | Nataliia V. Snizhko
<i>The stressed-strain state of a rotating ring</i> |
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Mathematical Modeling
Saturday, September 16

Room R306

Chairman: Pațiu Vladimir

12.10- **Fitim Deari, Carmen Roșoreanu**
12.30 *A case study of optimal portfolio composition. Critical lines*

12.30- **Vadim E. Levit, Eugen Mandrescu**
12.50 *Partial unimodality of independence polynomials of 1-well-covered graphs*

12.50- **Gârlă Eugeniu**
13.10 *The construction of an algorithm with optimal complexity*

Chairman: Gârlă Eugeniu

14.20- **Grigoriu Nicolae**
14.40 *Reorientation of the transitive graphs*

14.40- **Pațiu Vladimir, Sprincean Galina**
15.00 *A Comparison of Some Numerical Methods for Semiconductor Device Problem*

15.00- **Inga Bulat**
15.20 *Mathematical Models in the Risk Assessment in the Decision-Making Process*

Real, Complex, Functional and Numerical Analysis
Friday, September 15

Room R317

Chairman: Cecil P. Grunfeld

17.00- 17.20	Cristian Cazacu <i>Hardy inequalities and Hamiltonian operators: some applications to PDEs</i>
17.20- 17.40	Anca Croitoru, Alina Gavriluț and Alina Iosif <i>On Birkhoff weak integrability in Banach spaces setting</i>
17.40- 18.00	Marcelina Mocanu <i>Analytic and geometric consequences of Orlicz-Poincaré inequalities on metric measure spaces</i>
18.00- 18.20	Omer Gok <i>On semi-compact operators</i>
18.20- 18.40	Vitalie Țicău <i>Finite difference scheme for solving one-dimensional fractional diffusion equation</i>
18.40- 19.00	George Popescu <i>Dynamical Approximation Entropies in Operator Algebras</i>
19.00- 19.20	Rusen Yilmaz <i>The Arens triadjoint of an almost orthosymmetric bilinear map</i>
19.20- 19.40	Al-Jourany Khalid Hadi Hameed <i>On Characterization of Bessel System</i>

Real, Complex, Functional and Numerical Analysis
Saturday, September 16

Room R317

Chairman: Marcelina Mocanu

12.10- **Cristina Stamate**
12.30 *Vector Equilibrium Problem*

12.30- **Cecil P. Grunfeld**
12.50 *On properties of the positive solutions of a class of nonlinear evolution equations in an abstract Lebesgue space*

12.50- **Nicușor Minculete**
13.10 *Inequalities related to some types of entropies*

Chairman: Nicușor Minculete

14.20- **Larisa Cheregi**
14.40 *A comparison between Akima and Hermite type cubic spline with minimal quadratic oscillation in average*

14.40- **Larisa Cheregi**
15.00 *Stancu-type operators on a triangle with one curved side*

15.00- **Gabriela Apreutesei**
15.20 *Consonat Families of Sets*

15.20- **Mamoon Ahmed**
15.40 *The Commutator Ideals in C^* Crossed Products by Hereditary Subsemigroups*

Probability Theory, Mathematical Statistics, Operations Research
Friday, September 15

Room R402

Chairman: George-Andrei Padureanu

14.40- 15.00	Idan Alter, Yoram Louzoun <i>Population growth combined with wide offspring distributions can increase fixation rate and reduce genetic diversity</i>
15.00- 15.20	Ludmila Novac <i>Exchange rate risk, simulation and statistical analysis</i>
15.20- 15.40	Mutali Sezen <i>A methodology for calculation exchange rates using neural networks and fuzzy logic</i>
15.40- 16.00	Gheorghiuță Zbaganu <i>Some possible generalizations of comonotonicity</i>
16.00- 16.20	Hâncu Boris <i>Bimatrix perfect information game</i>
16.20- 16.40	Valeriu Ungureanu <i>Games of Matching Embeddings and Strategic Equilibria</i>

Saturday, September 16

Room R402

Chairman: Hâncu, Boris

12.10- 12.30	George-Andrei Padureanu <i>On Non-Homogeneous Continuous Time Markov Chains and Divergences With Applications in Banking Industry</i>
12.30- 12.50	Vlad Stefan Barbu, Alex Karagrigoriou, Vasile Preda <i>Generalized divergence measures for Markov chains</i>
12.50- 13.10	Alexandru Lazari <i>Dynamical systems with final sequence of states and almost asymptotically periodic transition probabilities</i>

Probability Theory, Mathematical Statistics, Operations Research
Saturday, September 16

Room R402

Chairman: Gheorghită Zbăganu

14.20- Mio Horai, Takashi.G. Nitta
14.40 *An Effective Linearizing Method for the Specific Nonlinear Minimax Optimization Problem*

14.40- Buzatu Radu
15.00 *Algorithms for determining nontrivial convex covers of graphs*

15.00- Tkacenko Alexandra
15.20 *The "Bottleneck" Fractional Multi-Objective Transportation Problem with Fuzzy Type of Parameters*

15.20- Dorina Țicu
15.40 *From Mathematical Statistics to Operational Research: techniques and methods used in public policies evaluation*

15.40- Zahra Shokooh Ghazani
16.00 *On the Strong Convergence for Negatively Orthant Dependent Random Variables*

16.00- Chitaranjan Sharma
16.20 *A Parallel System with Arrival and Maximum Repair Time of the Server*

Chairman: Valeriu Ungureanu

16.40- Ashish Kumar
17.00 *Cost-Benefit Analysis of a Cold Standby System with Preventive Maintenance Subject to Arrival Time of Server*

17.00- Monika Saini
17.20 *New Ratio Estimators Using Stratified Random Sampling and Stratified Ranked Set Sampling*

17.20- Oana Rachieru
17.40 *Brownian motion with barriers*

17.40- Natalya Litvinenko
18.00 *Estimation of psychological personality factors by combining different tests. Bayesian networks*

18.00- Lala Bouali Dalal and Benatia Fateh
18.20 *Robust estimator of conditional tail expectation in the case of heavy-tailed losses*

Algebra, Logic, Geometry (with applications)
Friday, September 15

Room R407

Chairman: Mitrofan Choban

14.40- **Fatemeh Alinaghipour, Bahman Ahmadi**
15.00 *Upper bounds for the size of binary codes*

15.00- **Fatemeh Alinaghipour, Bahman Ahmadi**
15.20 *Some notes on the maximum nullity of graphs*

15.20- **Cristian Anghel**
15.40 *On special bundles and superstrings*

15.40- **Vladimir Rovenski**
16.00 *Integral formulae for codimension-one foliated Finsler manifolds with (α, β) -metric*

16.00- **R. B. Popovych, R. V. Skuratovskii**
16.20 *Normal high order elements in cyclotomic finite field extensions*

16.20- **R. V. Skuratovskii**
16.40 *Structure of commutant and centralizer of Sylow 2-subgroups of alternating and symmetric groups, minimal generating sets of $Syl_2 A_n$, its applications in cryptography*

Chairman: Liubomir Chiriac

17.00- **Ina Ciobanu**
17.20 *On Malcev's hyperalgebras*

17.20- **Dumitru Botnaru**
17.40 *Varieties in the category of locally convex spaces*

17.40- **Natalia Didurik**
18.00 *On left-transitive quasigroups*

18.00- **N.N. Didurik, V.A. Shcherbacov**
18.20 *On definition of CI-quasigroup*

18.20- **Vladimir Izbash**
18.40 *Some results on the orthogonal n - groupoids*

18.40- **Botnaru Dumitru, Cerbu Olga**
19.00 *The Reflector Functors and Lattice $\mathbb{L}(R)$*

19.00- **Mihail Banaru, Galina Banaru**
19.20 *On Almost Contact Metric Structures of Cosymplectic Type*

Algebra, Logic, Geometry(with applications)
Saturday, September 16

Room R407

Chairman: Vasile I. Ursu

12.10- Liubomir Chiriac, Natalia Bobeica
12.30 *Paramedial groupoids and abelian groups*

12.30- Ion Cucu
12.50 *The cardinality of parametric bases in the chain logics*

12.50- Alexandru Lungu
13.10 *Cyclic crystallographic punctual groups of W_p -symmetry*

Chairman: Alexandru Lungu

14.20- N. Lupaşco
14.40 *About commutative Moufang loops with some restrictions for subloops*

14.40- Boris Ţaralungă
15.00 *On Some Semitopological Rings*

15.00- Vasile I. Ursu
15.20 *One remark of about some classes of generalized solvable loops*

Computer Science
Friday, September 15

Room R402

Chairman: Victor Seichiuc

17.00- 17.20	Tudor Barbu, Ionut Munteanu <i>A well-posed second-order anisotropic diffusion-based structural inpainting scheme</i>
17.20- 17.40	Adrian Ciobanu, Mihaela Luca <i>Structural Pattern Recognition for Titanian Nanotubes Arrays in SEM Images</i>
17.40- 18.00	Victor Cozlov <i>Web Crawler and Its Facilities</i>
18.00- 18.20	Oleksandr Fedosieiev, Oleksandr Lefterov, and Andriy Yaremich <i>Visualization of algorithmic solutions for route selection, using the example of wine pathways</i>
18.20- 18.40	Kuznetsov Eugene, Cealbash Oleg <i>Specialized software application for processing customer reviews for various products using non-numeric statistics</i>
18.40- 19.00	Carolina Opinca <i>Parallel programming models on HPC clusters</i>
19.00- 19.20	Vasile Patraşcu <i>Shannon entropy for imprecise and under-defined or over-defined information</i>
19.20- 19.40	Le Thanh Hue <i>Station Cone Algorithm for Linear Programming with Non-Negative</i>

Computer Science
Saturday, September 16

Room R317

Chairman: Tudor Barbu

15.40-16.00 **Zlatko Varbanov, Borislav Anchev**
New nonbinary quantum codes

16.00-16.20 **Victor Seichiuc**
On technology in creation of Games for distance learning on mobile devices and PCs

16.40-17.00 **Titchiev Inga**
High Level Petri Nets in Scenario Analysis Related to the Field of Social Disasters

17.00-17.40 **Vladislav Seichiuc, Eleonora Seichiuc, Gheorghe Carmocanu**
On development of Intelligent Software Tools for solving of Integral Equations

17.00-17.40 **Adela Gorea**
Using BigData Analytics in Universities

17.40-18.00 **Mircea Petic**
Developing classifiers for emotional messages clustering

18.00-18.20 **Ruslan Skuratovskii, Evgeny Osadchiy**
Modernized Dijkstra's Algorithm and mathematical model for geographic information system

Education
Friday, September 15

Room R417

Chairman: Larisa Sali

14.40- **Ion I. Valuță, Evelina Valuță**
15.00 *Conexiuni ale matematicii cu teoria informației, din punct de vedere metodologic și predare-învățare (II)*

15.00- **Nicoleta Bleandura**
15.20 *Transfer issue from the perspective of the Situation Based Approach*

15.20- **Marina Bostan**
15.40 *Abordari metodologie privind studierea compartimentului "Drumuri minime în graf"*

15.40- **Andrei Braicov, Ala Gasnaș**
16.00 *Un model pedagogic centrat pe implementarea Sistemelor de Management al învățării în procesul de studiu al Programării Orientate pe Obiecte*

16.00- **Andrei Braicov, Tatiana Veverița**
16.20 *Dezvoltarea competențelor digitale în formarea inițială a profesorilor de filologie*

16.20- **Olesea Caftanatov**
16.40 *Personal learning paths for E-learning*

Chairman: Andrei Braicov

17.00- **Larisa Sali, Marcel Teleucă**
17.20 *Aspecte socioeducaționale ale adaptării elevilor cu potențial intelectual nevalorificat la exigențele matematicii de performanță*

17.20- **Eugenia Chiriac**
17.40 *Abordări didactice în procesul de studiere a științelor biologice prin prisma interdisciplinarității Biologie-Matematică*

17.40- **Radu Dumbrăveanu, Ghennadi Cabac**
18.00 *Analysis and enhancement of course content using typical problems of the IT industry*

18.00- **Natalia Gașitoi, Liubov Zastînceanu**
18.20 *Metoda proiectului și perfecționarea competențelor didactice ale profesorilor de matematică*

18.20- **Lilia Mihalache**
18.40 *Abordări didactice privind activitățile integrate din cadrul clasei viitorului*

18.40- **Hoffmann B. V. Cornelia**
19.00 *Rolul mijloacelor tehnice, audio-vizuale, în eficientizarea procesului educațional*

19.00- **Ghennadi Cabac, Radu Dumbraveanu**
19.20 *Construcția traseelor individuale ale studenților în funcție de pregătirea inițială a studenților*

Education
Saturday, September 16

Room R417

Chairman: George Popescu

12.10-12.30 **Ina Ciobanu**
Vizualizarea torsionii unei curbe prin intermediul softului interactiv GeoGebra

12.30-12.50 **Olga Danilkina, Elisabete Alberdi Celaya, Judit Munoz-Matute**
Modeling the n-queens problem using mathematical software

12.50-13.10 **Olga Danilkina, Elisabete Alberdi Celaya, Judit Munoz-Matute, M^a Isabel Eguia Ribero, M^a Josefa González Gómez**
A proposal to work the digital competence in mathematics in secondary school

Chairman: Ioan Valuță

14.20-14.40 **Ecaterina Rusnac**
Abordări metodice privind utilizarea platformei de învățare MOODLE în studiul cursului universitar Analiza matematică

14.40-15.00 **George Popescu**
Fundamental Principles of Education and Teaching Mathematics

15.00-15.20 **Liubomir Chiriac, Angela Globa**
Reflecții didactice asupra sistemului de pregătire a profesorilor de informatică

15.20-15.40 **Liubov Zastînceanu, Natalia Gașitoi**
Organizarea activităților colaborative pentru viitorii profesori de matematică

15.40-16.00 **Dorin Pavel, Maria Pavel**
Limbajul științific și cultural al profesorului din domeniul științelor reale

16.40-17.00 **Stela Țicău**
Eficientizarea realizării activităților educative prin intermediul tehnologiilor moderne

17.00-17.20 **Vitalie Țicău**
Recursive calls in the Pascal programming language

17.20-17.40 **Teodora Vascani**
Esența și conținutul conceptului "competența profesional-matematică a studenților informaticieni"
