

Parallel Sections Lectures

Section 1: Algebraic Geometry and Algebraic Number Theory

*Location: Room “Council Hall”,
first floor, Apor Palace (Rectorate),
“1 Decembrie 1918” University of Alba Iulia*

Thursday, September, 17th, 2015

Chairman: Philippe Gille

- 15:00-15:30 **Ivan Chipchakov** Invited parallel sections lecture
*Henselian Fields, Brauer p -Dimensions and
the Inverse Problem for Index-Period Pairs*
- 15:30-15:50 **Ovidiu Bagdasar** *On Arithmetic Functions and Integer Tuples
with the Same LCM*

Chairman: Simion Breaz

- 15:50-16:20 **Constantin - Nicolae
Beli** Invited parallel sections lecture
*Octonion Algebras Having the Same
Quaternion Subalgebras*
- 16:20-16:40 **Adrian Constantinescu** *Hilbert 14-Th Problem: Locally Compactness
and Finite Generation of Subalgebras. Some
Open Questions - To the memory of Prof.
Alexander Grothendieck (1928 - 2014)*
- 16:40-17:00 **Nihat Akgüneş** *A Study on Graph Product of Semigroups*

Coffee break

Chairman: Cristian Anghel

- 17:20-17:40 **Mircea Cimpoeaş** *Survey on the Stanley Depth of Monomial
Ideals*

- 17:40-18:10 **Simion Breaz** Invited parallel sections lecture
Almost Exact Structures in Triangulated Categories
- 18:10-18:30 **Alua Shakenova** *The Attempt of Finding Triangle with Integer Sides, Medians and Area*
- Chairman: Adrian Constantinescu*
- 18:30-19:00 **Cristian Anghel** Invited parallel sections lecture
Quantum Sheaf Cohomology on Surfaces of General Type
- 19:00-19:20 **Cheranoot** *Pythagorean Triples over Eisenstein Integers*
Somboonkulavudi

Section 2: Complex Analysis and Operator Theory

*Location: Room “Senate Hall”,
first floor, Apor Palace (Rectorate),
“1 Decembrie 1918” University of Alba Iulia*

Thursday, September, 17th, 2015

Chairwoman: Nicoleta Breaz

- 15:00-15:20 **Grigore Sălăgean** *Some Geometric Properties of Analytic Functions Involving a New Fractional Operator*
- 15:20-15:40 **Ágnes Orsolya Páll-Szabó** *Certain Class of Analytic Functions Defined by Sălăgean Derivative with Varying Arguments*
- 15:40-16:00 **Firas Ghanim** *A New Study of a Linear Operator Associated with Gaussian Hypergeometric Functions*

Chairwoman: *Loriana Andrei*

16:00-16:20 **Alina Alb Lupaş** *On Some Differential Sandwich Theorems Using a Multiplier Transformation and Ruscheweyh Derivative*

16:20-16:40 **Firas Ghanim** *Some Properties on a Class of Meromorphic Functions Defined by a Linear Operator*

16:40-17:00 **Daniel Breaz** *Some Results for Analytic Functions*

Coffee break

Chairman: *Grigore Sălăgean*

17:20-17:40 **Nicoleta Breaz** *Fractional Calculus of Analytic Functions Concerned with Möbius Transformations*

17:40-18:00 **Radu Diaconu** *Preserving Properties and Estimation of the Coefficients for Functions that Belong to the Subclass of Analytic Functions*

18:00-18:20 **Loriana Andrei** *On Some Applications of Differential Subordinations*

Chairman: *Firas Ghanim*

18:20-18:40 **Cosmina Naicu** *A New Integral Operator on Meromorphic Starlike Functions*

18:40-19:00 **Roberta Bucur** *Univalence Conditions for a New General Integral Operator*

19:00-19:20 **Dorin Wainberg** *Some Properties of an Integral Operator*

Friday, September, 18th, 2015

Chairman: *Dorin Wainberg*

15:00-15:20 **Ilie Văluşescu** *Stationary Dilation of a Nonstationary Γ -Correlated Process*

- 15:20-15:40 **Ali Karaisa** *Some Approximation Properties Durrmeyer Type Jakimovski - Leviatan Operators*
- 15:40-16:00 **Dragan Djordjevic** *On Angles between Subspaces*
- Chairman:** *Dragan Djordjevic*
- 16:00-16:20 **Dijana Mosić** *Weighted Pre-Orders Involving the Generalized Drazin Inverse*
- 16:20-16:40 **Ivana Djolovic** *Matrix Transformations and General Linear Bounded Operators between Sequence Spaces (Similarities and Differences)*
- 16:40-17:00 **Marko S. Đikić** *Star Supremum and Star Infimum for Arbitrary Hilbert Space Operators*

Coffee break

Chairman: *Ilie Văluşescu*

- 17:20-17:40 **Olga Engel** *About the Radius of Convexity of Some Analytic Functions*
- 17:40-18:00 **Nicoleta Ularu** *Properties for Some New Integral Operators*
- 18:00-18:20 **Mohammad Sababheh** *A Hardy-Type Inequality for Functions whose Fourier Coefficients Obey a Certain Rotation Condition*

Chairwoman: *Nicoleta Ularu*

- 18:20-18:40 **Anna Tatarczak** *Orthogonal Polynomials and Typically Real Function*
- 18:40-19:00 **Adriana Oprea** *The Univalence Conditions of an Integral Operator*
- 19:00-19:20 **Van Tuan Nguyen** *Some Properties for General Integral Operators of p -Valent Functions*

Section 3: Differential Equations and Optimal Control

*Location: Room “Council Hall”,
first floor, Apor Palace (Rectorate),
“1 Decembrie 1918” University of Alba Iulia*

Friday, September, 18th, 2015

Chairman: Ion Mihoc

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|-------------|------------------------------|--|
| 15:00-15:20 | Mohammad Salim Zannon | <i>Higher Order Analyses of Laminated Composite Thick Conical Shells</i> |
| 15:20-15:40 | Dounia Belakroum | <i>A Numerical Solution for a Telegraph Equation using Bernstein Polynomials Technique</i> |
| 15:40-16:00 | Ioan-Lucian Popa | <i>Characterizations of the (h, k, μ, ν)-Trichotomy for Linear Time-Varying Systems</i> |

Chairman: Ion Chişescu

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|-------------|-------------------------------|--|
| 16:00-16:20 | Mehmet Yavuz | <i>A Numerical Computation of Fractional Black-Scholes Equation</i> |
| 16:20-16:40 | Mihai Petru Monea | <i>Some Considerations about Hyers-Ulam Stability of the Intermediate Point Arising from the Mean Value Theorems</i> |
| 16:40-17:00 | Claudia-Luminiţa Mihiţ | <i>Lyapunov Functions for Trichotomy with Different Growth Rates</i> |

Section 4: Probability and Statistics in Mathematical Modeling

*Location: Room “Council Hall”,
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Friday, September, 18th, 2015

Chairman: Ioan-Lucian Popa

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| 17:20-17:40 | Ion Mihoc | <i>On Some Probabilistic and Informational Characterizations of the Weibull Distribution</i> |
| 17:40-18:00 | Wongsakorn Charoenpanitseri | <i>Game Coloring of Joined Graphs</i> |
| 18:00-18:20 | Nicolae Lupa | <i>Thresholds for the Reduction Criterion for Random Quantum States</i> |
| 18:20-18:40 | Ahmet Pekkör | <i>Outliers Detection in Nonlinear Regression</i> |
| 18:40-19:00 | Abdelmalek Kouadri | <i>Faults Detection in a Cement Rotary Kiln System via a Statistical-Based Approach</i> |

Section 5: Advances in the Theory and Applications of Computer Science

*Location: Room LTI
ground floor, Apor Palace (Rectorate),
“1 Decembrie 1918” University of Alba Iulia*

Thursday, September, 17th, 2015

Chairwoman: Manuella Kadar

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| 15:00-15:20 | Rozica-Maria Tache | <i>On General Sum-Connectivity Index with $\alpha > 1$ for Cacti Graphs</i> |
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15:20-15:40	Ștefan Popescu	<i>Networks of Polarized Evolutionary Picture Processors - Results and Perspectives</i>
15:40-16:00	Andreea Nicolcioiu	<i>A Hardware Based Cryptography Approach to Information Technology Security</i>
16:00-16:20	Maram Bani Younes	<i>An Adaptive ECO-Path Recommendation Protocol for VANETS</i>

Section 6: Artificial Intelligence

Location: Room LTI

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Thursday, September, 17th, 2015

Chairwoman: *Corina Rotar*

16:20-16:40	Angel Garrido	<i>New Challenges of AI</i>
16:40-17:00	Beatrice- Daniela Bucur	<i>Several Remarks on Generating a Theoretical Model of Modal Logic</i>

Coffee break

Chairman: *Angel Garrido*

17:20-17:40	Corina Rotar	<i>New Metaheuristics for Optimization Inspired by the Directed Evolution Techniques</i>
17:40-18:00	Adriana Mihaela Coroiu	<i>Partitional Clustering Methods with Ordinal Variables</i>
18:00-18:20	Maria Muntean	<i>Feature Selection Methods for Multidimensional Datasets</i>
18:20-18:40	Adriana Bîrluțiu	<i>Transfer Learning from a Machine Learning Perspective</i>

Section 7: Product and Process Modeling. Embedded Systems

Location: Room LTI

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Friday, September, 18th, 2015

Chairwoman: Ildiko Tulbure

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| 15:00-15:20 | Remus Dobra | <i>Wireless Position Monitoring System for Small and Medium Networks</i> |
| 15:20-15:40 | Ioan Ileană | <i>Modeling and Simulation of LED Lighting Systems Using MATLAB</i> |
| 15:40-16:00 | Mircea Rîșteiu | <i>Designing IoT- Based Smart Sensor Network Using MVC and Data Fusion</i> |

Section 8: Knowledge Engineering

Location: Room LTI

ground floor, Apor Palace (Rectorate),
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Friday, September, 18th, 2015

Chairman: Ioan Ileană

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| 16:00-16:20 | Manuella Kadar | <i>A Generative Model for Systems Interoperability Assessment</i> |
| 16:20-16:40 | Ildiko Tulbure | <i>Fuzzy-Logic based Approach for Environmental Impact Assessment</i> |
| 16:40-17:00 | Elisabeta Mihaela Ciortea | <i>The Optimization in Manufacturing Systems Using Petri Net</i> |