

Conference Program

Monday, June 16th

9.00 **Opening ceremony (Ceremonial Hall -Rectorat)**

Prof. Dr Miladin Kostic, rector SUNP
Prof. Dr C. Dolicanin, Academician of JANN
Academician SASA T. M. Atanacković

COCKTAIL

9.30 **Plenary Session (Ceremonial Hall -Rectorat)**

Chairmans
Academician SASA, T. M. Atanackovic
Prof. Dr C. Dolicanin, Academician of JANN

9.30-10.00 **I. Gutman**, Kragujevac Trees and Their Energy, Serbia.
 10.05-10.35 **M. Spies**, Towards an open software architecture for interleaved knowledge and natural language processing, Deutschland.

10.40 **SECTIONAL LECTURES:**

Mathematics (Ceremonial Hall -Rectorat)

10.40 **Session 1**
Chairmans
Igor Milovanovic
A. Soloviev

10.40-10.50 **S. Pilipovic, S. Aleksic**, Construction of shift-invariant spaces, Serbia.
 10.55-11.05 **N. Bokan, A. Kovacevic, D. Marceta**, Geometry of zero-velocity surfaces, Serbia.
 11.10-11.20 **T. M. Atanackovic, M. Janev, S. Pilipovic, D. Zorica**, On a numerical scheme for non-linear fractional differential equations, Serbia.
 11.25-11.35 **I. Z. Milovanovic, E. I. Milovanovic, E. C. Dolicanin**, Lower bounds of the Kirchhoff and degree Kirchhoff indices, Serbia.
 11.40-11.50 **A. Soloviev**, Stochastic approach to research of stability of solutions of the differential equations, Russia.
 11.55-12.05 **A. V. Lebedev, P.P. Zabreiko**, Financial markets geometry, Russia.
 12.10-12.20 **A. Yu. Aleksandrov, E.B. Aleksandrova, A. P Zhabko**, Stability Analysis of time-delay systems by nonlinear approximation, Russia.

12.25 **Lunch**

13.30 **Session 2**
Chairmans
Miroslav Petrovic
Dragic Bankovic

13.30-13.40 **T. M. Atanackovic, D. Dolicanin-Djekic, S. Pilipovic, D. Zorica**, Oscillator with complex fractional order Kelvin-Voigt type damping, Serbia.
 13.45-13.55 **D. S. Djordjevic**, Operators on Hilbert C - modules, Serbia.

14.00-14.10 **M. Ciric and J. Ignjatovic**, Equations and inequalities defined by residuated functions and their applications, Serbia.

14.15-14.25 **T. Aleksic, M. Petrovic**, Bicyclic Graphs Whose Spread is Maximal, Serbia.

14.30-14.40 **U. Marovac, D. Bankovic**, Contribution to the theory of generalized system of Boolean equations, Serbia.

14.45-14.55 **T. M. Atanackovic, M. Janev, Lj. Oparnica, S. Pilipovic, D. Zorica**, Fractional Zener wave equation: space-time generalization, Serbia

15.00-15.10 **Marija P. Stanic**, Error bounds for some quadrature rules with maximal trigonometric degree of exactness, Serbia.

15.15-15.25 **Tatjana V. Tomovic**, Error estimates for certain quadrature rules of Gaussian type for trigonometric polynomials, Serbia.

15.30-15.40 **Bojana Borovicanin**, Maximizing the signless Laplacian index of graphs with perfect matching, Serbia.

Mechanics (Room 206)

10.40 **Session 1**
Chairmans
Dragan Spasic
Valemtin N. Tkhai

10.40-10.50 **V.N. Tkhai, I.N. Barabanov**, Dynamics of the Model Containing Coupled Subsystems, Russia.

10.55-11.05 **C. Dolicanin, R. Malti, D. T. Spasic**, Post's inversion formula 85 years latter, Serbia.

11.10-11.20 **Cs. Mészáros and Á. Bálint**, Symmetry analysis of turbulent flows on the base of common application of the general variational principles of non-equilibrium thermodynamics and symmetry theory of Q1D systems, Hungary.

11.25-11.35 **V. B. Glavardanov**, Buckling and postbuckling analysis of nanotube, Serbia

11.40-11.50 **M. M. Zigic, N. M. Grahovac and D.T. Spasic**, On numerical solution of an optimal control problem for a sliding isolated seismically excited structure with passive fractional damping, Serbia.

12.25 **Lunch**

13.30 **Session 2**
Chairmans
Tikhonov A.A
Valentin B. Glavardanov

13.30-13.40 **G.A. Leonov, P.E. Tovstik, T.M. Tovstik**, Cinematic and Dynamics of a Steward Platform, Russia.

13.45-13.55 **Kosjakov E.A., Partalin T.A., Tikhonov A.A.**, On disturbances and resonances in spacecraft oscillations, Russia.

14.00-14.10 **S. Kostic, J. Trivan, N. Vasovic, I. Franovic, K. Todorovic**, Dynamics of fault creeping due to mining induced periodic vibrations, Serbia.

14.15-14.25 **H. Bronja**, A new two-stage approach for evaluation and ranking of Cloud Computing Service Provider, Serbia.

Informatics (Room 207)

10.40 **Session 1**
Chairmans
Bratislav Miric
Petar Spalevic

10.40-10.50 **B. Miric, I. Fetahovic, U. Marovac, Dž. Avdic**, Identification of small velocity targets in doppler radar electromagnetic field using correlation matrix of spectral moments, Serbia.

10.55-11.05 **E. Kajan, Z. Maamar, Nora Faci**, Software process improvement by Enterprise 2.0 technologies, Swrbia and France.

11.10-11.20 **E. Dolicanin, K. Kuk, P. Spalevic**, E-Learning into Virtual Word, Serbia.

11.25-11.35 **A. Pavlovic, N. Glisovic**, Image Statistics for Digital Image Forensics, Serbia.

11.40-11.50 **V. Dj, Djakovic G. B. Andjelic, N. M. Ralevic, N. S. Glišovic**, A closer examination of the extreme value theory model in value at risk assesment, Serbia.

12.25 **Lunch**

13.30 **Session 2**
Chairmans
Zarko Barbaric
Ejub Kajan

13.30-13.40 **S. Özdemir, Sajad Ghorbani, R. Unland**, Multi-Agent Recursive Local Market Design for Prosumers within a Multilayer Structure, Deutschland.

13.45-13.55 **A. Pavlovic, Z. Barbaric, V. Nikolic**, Impact of Emissivity and Reflectivity of the Object to Estimate Temperature using Infrared Thermal Imaging Camera, Serbia.

14.00-14.10 **N. S. Glisovic, N. M. Ralevic, G. B. Andjelic, Vladimir Dj. Djakovic**, Fuzzy-Neural Networks Systems for Stock Market Prediction, Serbia.

14.15-14.25 **E. Glogic, E. Zogic**, Comparative analysis of interconnection networks, Serbia

14.30-14.40 **M. Miletic, I. Miletic, E. Dolićanin, V. Nikolic**, Influence of new and old regulation standard for energy efficiency on thermal insulation in Serbia, Serbia.

19.00 **Conference Dinner**



Third Announcement
CPMMI 2014
 3rd International Conference
**CONTEMPORARY PROBLEMS
 OF MATHEMATICS,
 MECHANICS AND
 INFORMATICS**



Novi Pazar, 15-17 June 2014.

State University of Novi Pazar
 Department of Mathematical Sciences
 organizes

3rd International Conference

**CONTEMPORARY PROBLEMS OF MATHEMATICS,
 MECHANICS AND INFORMATICS (CPMMI 2014)**

Conference Chairman

Prof. Dr Cemal Dolicanin, Academician of JANN
 State University of Novi Pazar

Basic information

3rd International Conference "CONTEMPORARY
 PROBLEMS OF MATHEMATICS, MECHANICS AND
 INFORMATICS " will be held at The State University of
 Novi Pazar, **15, 16 and 17. June 2014**, Novi Pazar.

Registration and Agenda

15. June 2014. Registration at the State University
 of Novi Pazar, from 12:00.

16. June 2014. 9:00 Opening ceremony

17. June 2014. 9:00 Working sessions

12:30 Conference session ending

13:00 Sightseeing of the city and
 surrounding

Conference Secretariat

The correspondence should be performed via Conference
 Organizing Committee

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Accommodation

Accommodation is organized in cooperation with State
 university of Novi Pazar, at the hotel "VRBAK". Hotel
 "Vrbak" is located in the center of Novi Pazar. Below the
 hotel, the river Raska flows. With its distinctive architecture,
 internal and external environment, it leaves a strong
 impression to the passers-by.



Tuesday, June 17th

Plenary Session (Ceremonial Hall -Rectorat)

Chairmans

**Zarko Barbaric
 V. B. Levenshtam**

9.00

**9.00-
 9.30**

G. V. Milovanovic, Numerical Methods for Fredholm
 Integral Equations with Periodic Solutions, Serbia.

**9.35 -
 10.05**

A. B. Antonevich, E.V. Panteleeva, Right-side resolvent
 of weighted shift operator, Russia.

**10.10-
 10.40**

A. P. Seyranian, V. B. Glavardanov, Solution for the
 problem of Nicolai with variable cross-section and
 compressibility, Russia and Serbia.

10.45

SECTIONAL LECTURES:

Mathematics (Ceremonial Hall -Rrectorat)

Session 1

Chairmans

**Academician SASA, G. Milovanović
 Neda Bokan**

10.45

**10.45-
 10.55**

V. B. Levenshtam, P. E. Shubin, Ustification of the
 averaging method for the boundary value problems on a
 finite or semi-infinite interval, Russia.

**11.00-
 11.10**

E. Malkowsky, Visualization and Animation in
 Mathematics, Germany

**11.15-
 11.25**

Ivan D. Arandjelovic, On Boyd-Wong-type fixed point
 results, Serbia.

**11.30-
 11.40**

T. Grbic, S. Medic, Inequalities for interval-valued \oplus -
 measures based on g-integrals, Serbia

**11.45-
 11.55**

Vesna Velickovic, Software for Visualization of
 Mathematics by Line Graphics, Serbia.

**12.00-
 12.10**

Dž. Pucic, The basic properties and duals of Bergman's and
 Handy's spaces in the unit ball in C^n and their comparison,
 Serbia.

12.15

Coffee break

Informatics (Room 207)

Session 1

Chairmans

**Ivan Djokic
 Koviljka Stankovic**

10.45

**10.45-
 10.55**

**E. C. Dolicanin, M. D. Obrenovic, I. S. Fetahovic, K.
 Dj. Stankovic**. Monte-Carlo simulation of radiation impact
 on flash memory cells, Serbia.

**11.00-
 11.10**

I. Djokic, A. Avdic, A. Pavlovic, A Simple Routing
 Protocol for Mobile Ad Hoc Networks, Serbia.

**11.15-
 11.25**

U. Marovac, System of three Boolean inequations, Serbia.

**11.30-
 11.40**

B. Lazovic- Cendic, A genetic algorithm for the minimum
 hitting set, Serbia.

12.15

Coffee break

12.30

Closing of the Conference

13.00

Sightseeing of the city and surrounding