13th Serbian Mathematical Congress
Vrnjačka banja, May 22–25, 2014

Conference Schedule

Field 2: Numerical Mathematics, Applied Mathematics

May 23, 2014

09:00–11:00   **Plenary lectures**

11:00–11:30   Cofee break

11:30–13:20   Field 2– Chairman: Blagovest Sendov

11:30 - 12:05
Dimitrios Pappas
Image restoration methods based on least squares solutions

12:05 - 12:25
Ivan Stanimirovic
Computation of Generalized Matrix Inverses via Full-rank LDL* Decomposition

12:25 - 12:45
Marko Petkovic
Hankel transform computation of different integer sequences

12:45 - 13:05
Vasilios N Katsikis
A new computational tool for option replication

13:05 - 13:25
Boban Marinkovic
A Motzkin-type theorem of the alternative in L_p spaces

13:30–15:00   Lunch break

15:00–16:55   Field 2 – Chairman: Marko Petković

15:00 - 15:35
Blagovest Sendov
Analogue of Gauss-Lucas theorem for complex polynomials

15:35 - 15:55
Marija P. Stanić, Tatjana V. Tomović
Multiple orhogonality in the space of trigonometric polynomials if semi--integer degree

15:55 - 16:15
Tatjana V. Tomović, Marija P. Stanić
Quadrature rules with an even number of multiple nodes and a maximal trigonometric degree of exactness

16:15 - 16:35
Nenad P. Cakic
q-analogues of multiparameter non-central Stirling numbers

16:35 - 16:55
Natasa Krejic
Inexact Restoration approach for minimization with inexact evaluation of the objective function

17:00–17:30   Cofee break

17:30–19:30   Field 2– Chairman: Vasilios N. Katsikis

17:30 - 18:05
Tatyana Micic
Modelling uncertainties in structural design and assessment

18:05 - 18:25
Katica R. Stevanovic-Hedrih
Petrovic's Elements of mathematical phenomenology AND Phenomenological Mappings in Science

18:25 - 18:45
Lidija Rančić and Miodrag Petković
A new simultaneous method with corrections for approximating zeros of analytic functions

18:45 - 19:05
B. Malešević, M. Petrović, I. Jovović, B. Banjac
Plane curves with foci and directrices in the facility location problems

19:05 - 19:25
Branko Malesevic, Tatjana Lutovac, Milica Makragić, Bojan Banjac, Marija Nenezić
One method for proving a class of trigonometric inequalities

19:25 - 19:45
Tatyana Micic, Miomir Stankovic, Dragoslav Stojic, Nikola Velimirovic
Stohastic process representation for time-dependent timber-concrete composite beam deterioration

May 24, 2014

09:00–11:00   **Plenary lectures**

11:00–11:30   Cofee break

11:30–13:25   Field 2– Chairman: Branko Malešević

11:30 - 12:05
Bernd Steinbach, Christian Posthoff
Boolean Differential Equations – Solution and Applications

12:05 - 12:25
Sandra Hodzic
About a nonlocal BVP for Poisson's equation

12:25 - 12:45
Zorica Dusan Milovanovic
Numerical approximation of 2D elliptic transmission problem in disjoint domains

12:45 - 13:05
Bosko Jovanovic
Some Boundary Value Problems for Fractional in Time Diffusion-Wave Equation and their Numerical Solution

13:05 - 13:25
Aleksandra Delić
A Finite Difference Scheme for a Fractional Super-diffusion Equation with Concentrated Capacity

13:30–15:00   Lunch break

15:00–16:15   Field 2– Chairman: Bosko Jovanovic

15:00 - 15:35
Dimitrios Pappas
Outer Inverses in constrained quadratic optimization

15:35 - 15:55
Snezana Djordjevic
New Hybrid Conjugate Gradient Method for Unconstrained Optimization

15:55 - 16:15
Vladimir Janković
A new proof of the necessary conditions of the first order for the general problem of the calculus of variations