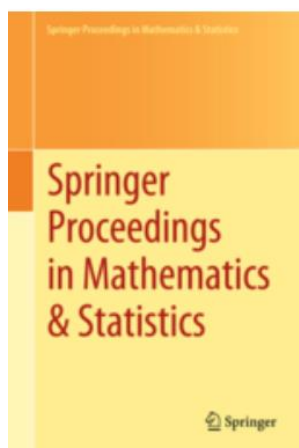# The Seventh International Conference on Network Analysis NET 2017

June 22-24, 2017

Laboratory of Algorithms and Technologies for Network Analysis (LATNA),
National Research University Higher School of Economics, Nizhny Novgorod, Russia

Thursday, June 22
Room 402 HSE, 136 Rodionova Str.

09:00 – 09:30 Registration
09:30 – 09:50 Panos M. Pardalos
Data Mining and Optimization Heuristics for Massive Networks
09:50 – 10:40 Roberto Battiti
From graphs to communities, cliques, quasi-cliques and related gangs
10:40 – 11:00 Coffee Break
11:00 – 11:50 Nenad Mladenovic
New community detection criterion
11:50 – 12:30 Session 1 (2 talks)
Yury Malkov
Geometric model of rich-club phenomenon in complex networks
Sergey Makrushin
Developing a model of topological structure formation for power transmission grids based on the analysis of the UNEG
12:30 – 14:00 Lunch Break
14:00 – 14:50 George Michailidis
Regularized estimation and testing for High-Dimensional Multi-Block Vector Autoregressive Models
14:50 – 15:10 Coffee Break
15:10 – 16:10 Session 2 (3 talks):
Jayeeta Deshmukh
Trade credit Guarantee Networks with Frictionless Benefit
Igor Konnov
Application of market models to network equilibrium problems
Olga Pinyagina, Igor Konnov
Selective bi-coordinate variations for network equilibrium problems with mixed demand
16:10 – 16:30 Coffee Break
16:30 – 17:50 Session 3 (4 talks):
Alina V. Vladimirova, Alexey L. Ryabinin
Accounting for National Scientific Traditions in Bibliometric Network Analysis: Mapping Asian and African Studies in Russia
Nataliya Matveeva
Analyzed of co-authorship networks and scientific citation based on Google Scholar
Sergei Sidorov
Company Co-Mention Network Analysis
Ivan Kuznetsov
Intra-organizational networks in organizations: communication networks as a key to success
18:00 Reception

Friday, June 23
Room 402 HSE, 136 Rodionova Str.

09:30 – 10:20 Elena Konstantinova
Cayley networks in Computer Science
10:20 – 10:40 Coffee Break
10:40 – 11:30 Ludmila Prokhorenkova
Some general results on preferential attachment and clustering coefficient
11:30 – 12:30 Session 4 (4 talks):
Sergey Slashchinin
The Properties of Optimal Portfolios for Markowitz Problem
Dmitry Sirotkin
Polynomial-time solvability of the independent set problem in a certain class of subcubic planar graphs
Dmitry Taletskii
On the number of maximal independent sets in complete q-ary trees
Sergey Ketkov
Evader's models in sequential network interdiction
12:30 – 14:00 Lunch Break
14:00 – 14:50 Andrey Raigorodskii
Random graphs and applications
14:50 – 15:10 Coffee Break
15:10 – 16:15 Session 5 (3 talks):
Alexander Rubchinskiy
Decomposition Complexity of Graphs and Its Applications to Analysis of Socio-Economic Systems
Irina Utkina
Using modular decomposition technique to solve the maximum clique problem
Dmitry Ignatov
Multimodal Clustering for Community Detection
16:15 – 16:30 Coffee Break
16:30 – 17:45 Session 6 (5 talks)
Ilya I. Kurochkin
The comparative analysis of big networks with various network topologies
Alexander Semenov, Stepan Kochemazov, Dmitry Gorbatenko
Computational study of activation dynamics on networks of arbitrary structure
Andrey, Nelyubin, Vladislav, Pidinovski, Mikhail, Potapov
Methods of criteria importance theory and their software implementation
Marina Ananieva
Information Propagation Strategies in Online Social Networks
Ilia Karpov
Weighting Relationship Strength in Online Social Networks

Saturday, June 24
Room 402 HSE, 136 Rodionova Str.

09:30 – 10:20 Oleg Khamisov
Looking for an equilibrium on long-term electricity market under network constraints
10:20 – 10:40 Coffee Break
10:40 – 12:20 Session 4 (5 talks):
Alexander Strekalovsky
Global search in problem with d.c. constraints
Tatiana Gruzdeva
Minimization of the average production costs via fractional programming problem
Mikhail Batsyn, Alexey Nikolaev
Vehicle Assignment in Site-Dependent Vehicle Routing Problems with Split Deliveries
Andrei Orlov
On a Numerical Solving of Bilevel Pricing Problem in Telecommunication Networks via D.C. Maximization
Dmitry Ignatov
Searching for Maximal Quasi-Bicliques via MIP-Based Models
12:20 – 14:00 Lunch Break
14:00 – 14:50 Oleg Prokopyev
Finding Critical Links for Closeness Centrality
14:50 – 15:10 Coffee Break
15:10 – 16:10 Session 5 (3 talks):
Mario Rosario Guarracino
A distributed supervised learning algorithm for smart grid networks
Svetlana Kolesnikova
Application of Nonlinear Adaptation on Manifolds for Economic Objects
Ivan Grechikhin
Comparison of different methods of graphical models identification
16:10 – 16:30 Coffee Break
16:30 – 17:45 Session 6 (5 talks)
Maxim Demenkov
Deep neural network as a composition of polyhedral functions
Alexander Rassadin, Andrey Savchenko
Deep neural networks performance optimization via the Distillation the Knowledge
Anvar Kurmukov
Modular structure of brain networks in healthy and diseased brains
Nadezhda Kostyakova
Analysing Online Recomendation Networks
Dmitry Zaytsev
Mapping the ontologies, methodological approaches and methods of socio-political research: application of social network analysis