





# SPECIAL SECTION First International Conference on Social Network Analysis

NRU HSE INTERNATIONAL LABORATORY FOR APPLIED NETWORK RESEARCH





Welcome! We are delighted to have you join us for the First International Conference on Social Network Analysis, organized by the NRU HSE International Laboratory for Applied Network Research jointly with Faculty of Management. This program may change at the last minute, and we will post the updates to our conference website, <a href="http://anr.hse.ru/en/soc\_conf/">http://anr.hse.ru/en/soc\_conf/</a>.

We are following the tradition of Sunbelt and EUSN 2014 conferences, and expect participants to hop sessions. This is accepted and encouraged, as we are a part of a larger conference, and many interesting sessions may be happening at the same time. Therefore, all presentations should start and stop at the stated times. Should a presenter not appear for the scheduled slot, please use this time to ask questions and discuss research ideas until the next presentation.

Each presentation is scheduled for 12 minutes, with 3-minute breaks in between for changes of computers / flash drives / etc. (there is time left at the end of each session for Q&A). Session chairs are responsible for keeping the time, and will be provided with flash cards to indicate 5 and 1 minutes left in the presentation. There are ample breaks scheduled throughout the conference for socializing and discussions.

The conference is featuring several special sessions: a pre-conference workshop given by Vladimir Batagelj; a developmental poster session for those who are just starting to explore social network analysis, a student paper competition session for our youngest researchers, and of course, a plenary session with best minds in Russian and international management and social network analysis. We hope you find the conference interesting and productive.

Again, welcome! Best wishes,

The ANR



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## **Special Section Program Committee**

#### **Program Chair**

#### **Stanley Wasserman**

Scientific Supervisor, NRU HSE International Laboratory for Applied Network Research and Indiana University

#### **Local Conveners**

#### **Nikolay Filinov**

Dean, Faculty of Management, National Research University Higher School of Economics Irina Volkova

First Deputy Dean, Faculty of Management, National Research University Higher School of Economics

#### **Session Chairs**

Galina Gradoselskaya, NRU Higher School of Economics Benjamin Lind, NRU Higher School of Economics Olga Mayorova, NRU Higher School of Economics Julia Popova, NRU Higher School of Economics Yana-Maria Priestley, NRU Higher School of Economics Alina Vladimirova, NRU Higher School of Economics Irina Volkova, NRU Higher School of Economics

#### **Student Paper Competition Judges**

Galina Gradoselskaya, NRU Higher School of Economics Alexander Settles, Rutgers University, USA

#### **Organizing Committee**

#### Valentina Kuskova

Head, International Laboratory for Applied Network Research

#### Enge Iskhakova

Manager, NRU HSE International Laboratory for Applied Network Research

<sup>\*</sup>Cover Image credit: Adamic, L., & Adar, E. (2005). How to search a social network. *Social Networks*, 27(3), 187-203.



#### **Conference Reviewers**

We would like to thank the reviewers that helped make First International Conference on Social Network Analysis a possibility.

Irina Antoschyuk (European University in Saint Petersburg, Saint Petersburg State University)

Elena Artukhova (NRU HSE International Laboratory for Applied Network Research)

Nikolay Bazenkov (Institute of Control Science)

Oksana Bludova (Churkina) (NRU HSE International Laboratory for Applied Network Research)

Chkhartishvili Alexander (NRU HSE International Laboratory for Educational Policy Analysis)

Alexey Gorgadze (NRU HSE International Laboratory for Applied Network Research)

Galina V. Gradoselskaya (NRU HSE International Laboratory for Applied Network Research)

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Emma Mulyukova (NRU HSE International Laboratory for Applied Network Research)

Yana Muravyeva (NRU HSE International Laboratory for Applied Network Research)

Alexander Panchenko (Digital Society Laboratory, Moscow and Universite catholique de Louvain, Belgium)

Julia Popova (NRU HSE International Laboratory for Applied Network Research)

Alexander Rozhkov (NRU Higher School of Economics)

Alexander Semenov (NRU HSE International Laboratory for Applied Network Research)

Alexander Sirotkin (NRU HSE International Laboratory for Applied Network Research)

Diana Stepanova (NRU HSE International Laboratory for Applied Network Research)

Vera Titkova (NRU HSE International Laboratory for Applied Network Research)

Alina Vladimirova (NRU HSE International Laboratory for Applied Network Research)

Irina Volkova (NRU HSE International Laboratory for Applied Network Research)

Margarita Zobnina (NRU Higher School of Economics)



### **2014 Special Section Program**

**November 20-21, 2014, Moscow** 

#### **Conference Venue:**

National Research University Higher School of Economics Faculty of Management Kirpichnaya Street, 33/5

#### Wednesday, November 19th, 10:00 - 18:00

Pre-Conference Workshop: Analysis and visualization of networks using Pajek

#### Vladimir Batageli

University of Ljubljana, FMF, Department of Mathematics

Room: 534

**Workshop synopsis**: this workshop will provide a demo approach to Pajek. Participants will be presented with a broad range of concepts and informed about what (and how) can be done using the tool. Professor Batagelj will provide the HOW (sequences of commands) on the slides.

#### Included in the course are:

- basic notions, types and description of networks, visualization
- basic statistics on networks, large networks, scale-free networks
- connectivity structure of networks, acyclic networks
- important elements and subnetworks (centrality, cores, islands, skeletons, ...)
- two mode networks, collections of compatible networks and multiplication of networks, normalizations
- clustering in networks and blockmodeling
- temporal networks
- some hints for using the program.

(Lunch and coffee breaks catered; prior registration required for attendance)



## **Thursday, November 20th**

9:00 – 11:00	Conference Registration (downstairs hall)			
10:00 – 11:45	Poster Session, Chair: Julia Popova (9th Floor Hall)			
	Rustam Kamalov. Networks and Organizational Citizenship Behavior.			
	Irina Krivchenko. SNA of Content Practices and Communication Structure in Facebook Groups.			
	Antonina Milekhina. <i>Understanding propaganda: a Social Network Analysis Approach.</i>			
	Luiza Mukhamedova. <i>Understanding leadership from the network analysis perspective.</i>			
	Julia Popova. Effectuation and causation in Entrepreneurship: A Social Networks Approach.			
	Diana Stepanova. Popularity of Jazz musicians. Does it correspond with the instruments they play?			
	Sergey Titov. Personal virtual social network state and networking competence.			
11:45 – 12:00	Coffee Break (9 <sup>th</sup> Floor Hall)			
12:00 – 14:00	Plenary Session (Room 903, simultaneous translation available)			
	Igor Filatotchev (University College London and NRU HSE)			
	Stanley Wasserman (Indiana University and NRU HSE)			
	Alexander Bukhvalov (Russian Journal of Management)			
14:00 – 15:00	Lunch (9 <sup>th</sup> Floor Hall)			
15:00 – 18:00	Special Session: Student Paper Competition, Chair: Galina V. Gradoselskaya (Room 604)			
(With coffee break fro	om 16:30-16:45 )			
	Please note: the order of the participants is alphabetical. Because this			

is a competition, the actual order of presentations will be decided at



the start of the session. The winner(s) and runner-up(s) will be announced at the reception at 18:00.

Alexandra Barysheva. Building Profiles of Blog Users Based on Comment Graph Analysis.

Konstantin Glazkov. Searching for urban communities in the small town: details and procedures.

Tatiana Grunina. Social networks: friendship model. Harry Potter Case.

Polina Klevtsova. *Application of strategic management: network models in HQ-subsidiary relationships.* 

Maxim Kolomeychenko. The algorithm for communities detection in social networks.

Maria Kuznetsova. Countries' comparative advantage in the network structure of international trade: cell phones case study.

Daria Maltseva. Network Research in Russia: a State-of-the-Art Review.

Stanislav Moiseev. That's Not Music: Collaborative Forms and Legitimacy in Jazz and Metal.

Emma Mulyukova. *Project Management: a Social Network Analysis Approach.* 

Yana Muravyeva. Literature review of HQ-subsidiary relationships: autonomy, interactions, innovations, knowledge sharing, visions and values.

Yana-Maria Pristley. Coevolution of political views and networks among university students.

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**Reception** (9<sup>th</sup> Floor Hall)

18:15 -



## Friday, November 21st

9:00 – 11:00 **Conference Registration** (downstairs hall)

#### 10:00 – 12:00 **Conference Session I**

10:00 – 12:00	Conference Session I		
	SNA in Management (Room: 604)	SNA of Online Networks (Room: 605)	
	Chair: Irina Volkova	Chair: Olga Mayorova	
10:00 – 10:12	Evgenia Kornienko.	Alexandra Barysheva, Rostislav	
	SNA as an Infrastructure Asset	Yavorskiy.	
	Management Tool in Energy Industry.	Building Profiles of Blog Users Based	
		on Comment Graph Analysis.	
10:15 – 10:27	Margarita Zobnina, Alexander Rozhkov.	Irina Antoschyuk.	
	Team composition in the Russian	Co-authorship of Russian computer	
	venture industry.	scientists in the UK: identifying diaspora	
		knowledge networks.	
10:30 – 10:42	Alexander Rozhkov, Marina Weck,	Galina V. Gradoselskaya, Dmitry	
	Marina Sheresheva.	Gubanov.	
	Technology development networks: the	Grouping politically active communities	
	case of Urals region.	on Facebook by method of grain	
		clustering.	
10:45 – 10:57	Anna Abramova, Anna Yakovleva.	Aleksei Gorgadze.	
	The Borsch project: the effect of the	Virtual Caucasian Communities in the	
	food imports bans in contemporary	Social Network Sites.	
	Russia.		
11:00 – 11:12	Ivan Kuznetsov.	Mehrdad Agha Mohammad Ali Kermani,	
	Employee voice types and networks in	Hamidreza Navidi, Alireza Aliahmadi,	
	organizations.	Atefeh Ghadimi, Maedeh Shirvani.	
		Do students give fair grades to their	
		friends? A Social Network Analysis	
		Point of View	
11:15 – 11:27	Batyrkhan Kuatov.	Olga Mayorova	
	Stakeholder analysis: a Social Network	Diffusion of Innovative Teaching and	
	Approach.	Learning Materials: Sociology	
		Professors and Their Networks	
11:30 – 11:42	Anna Yakovleva, Irina Volkova.	Q&A and Discussions	
	Technological Platform Development:		
	an SNA Approach.		
11:42 – 12:00	Q&A and Discussions		

12:00 – 12:15 **Coffee Break** (9<sup>th</sup> Floor Hall)



**12:15 – 14:00 Conference Session II** 

	SNA in Education (Room: 604) Chair: Yana-Maria Priestley	SNA in Economics and Politics (Room: 605) Chair: Alina Vladimirova
12:15 – 12:27	Oleg Poldin, Diliara Valeeva, Maria Yudkevich. Which peers matter: How social ties affect peer-group effects.	Ivan M. Aymaliev. Police Connected Organizations as Political Coalitions: A Two-Mode Network Analysis of Bulgarian Police Donations.
12:30 – 12:42	Anna Shirokanova. Cultural Networks in Scientific Knowledge Creation: The Role of Periphery.	Alina Vladimirova.  Tied by a Network Shadow: Predicting Sanctions Dynamics from Alliance Networks.
12:45 – 12:57	Konstantin Ushakov, Rostislav Yavorskiy, D. Fishbein. The study of social capital of the educational organizations.	Vladimir Matveenko, Alexei Korolev. Network Game with Intertemporal Choice and Knowledge Externalities.
13:00 – 13:12	Sofia Dokuka, Diliara Valeeva, Maria Yudkevich. Coevolution of student friendship networks and academic achievements.	Andrey Murashov. Content-based SNA: What Does Strategic Documentation Tell Us About Regional Integration?
13:15 – 13:27	Elizaveta Chernenko, Andrey Zakharov and Prashant Loyalka. Peer effect as a factor of academic choice by Russian high school students.	Vladimir Uspenskiy. Careers in Early Modern Muscovy: Mapping the Service Records in the Sovereign's Court of 16th Century as a Social Network.
13:30 – 13:42	Vera Titkova, Valeria Ivaniushina, Daniel Alexandrov. Victimization and bullying behavior in vocational schools.	Elena Artukhova. Patterns of an interregional migration in Europe: Does the economic wellbeing matter?
13:42 – 14:00	Q&A and D	Discussions

14:00 – 15:00	Lunch (9th Floor Hall)		
Notes			



#### **15:00 – 17:00 Conference Session III**

	SNA Methodology and Modeling (Room: 604)
	Chair: Benjamin Lind
15:00 – 15:12	Alexander Panchenko, Dmitry Babaev, Sergey Objedkov.
	Matching Profiles of Facebook and VKontakte Users.
15:15 – 15:27	Dmitry Gnatyshak, Dmitry Ignatov, Alexander Semenov.
	Searching for Optimal Patterns in Multimodal Networks.
15:30 – 15:42	Benjamin Lind.
	Two-Mode Tie Formation in Creative Collaborative Networks.
15:45 – 15:57	Nikolay Bazenkov.
	Double Best Response – a Farsighted Network Formation.
16:00 – 16:12	Albina Gilyazova.
	About Building Small-World Graphs with the Controlled Characteristics that are
	Structurally Similar to the Online Social Networks.
16:15 – 16:27	Alexander Semenov.
	Russian Protest in Twitter: Sources of Data and their Effect on the Social Network
	Analysis Metrics.
16:30 – 17:00	Q&A and Discussions

# \_Notes



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## **Author Index**

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