

NetSci 2016: International School and Conference on Network Science

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ABSTRACT

The 10th NetSci conference was held at The-K Hotel in Seoul in June 2016, with Hawoong Jeong of KAIST functioning as the organizing chair. Consisting of a two-day network science school followed by a three-day main conference, NetSci aims to promote cutting-edge research in network science, foster new talent, and develop interdisciplinary scientific research. Past conferences of NetSci were held in Boston (USA), Zaragoza (Spain), Copenhagen (Denmark), New York (USA), Norwich (UK), and Venice (Italy). This year's event was sponsored in part by the Asia Pacific Center for Theoretical Physics (APCTP). The conference began with the school and the satellite session. The school was geared toward graduate students and newcomers to the field, in order to help them understand the basics of network science. During the conference, a truly international group of participants gave talks on the recent developments in networks, covering a wide range of topics such as random graph theory, biological networks, social networks, and big data. There were participants from Korea, the United States, the UK, Germany, Japan, China, and many other countries.

The program for this year's network science school consisted of the following topics: "Introduction to Networks" by Professor Jesus-Gomez Gardenes (Universidad de Zaragoza, Spain); "Structure and Robustness of Multi-layer Networks" by Professor Ginestra Bianconi (Queen Mary University of London, United Kingdom); "Neuronal Networks in the Lab: From Cultures to Connectivity Reconstruction" by Professor Jordi Soriano (Universidad de Barcelona, Spain); "Networks in Socio-Technical Systems I" by Professor Stefan Thurner (Medical University Of Vienna, Austria); "Brain Networks: From Cortex to Cognition" by Professor Olaf Sporns (Indiana University, USA); "Inference in Complex Networks I" by Professor Marta Sales Pardo (Universidad Rovira I Virgili, Spain); "Inference in Complex Networks II" by Professor

Aaron Clauset (University of Colorado Boulder, USA); and "Networks in Socio-Technical Systems II" by Professor Jure Leskovec (Stanford University, USA).

The main conference was headlined by four keynote addresses: "Network Resilience" by Albert-László Barabási (Northeastern University, USA); "How to Generate Random Graphs?" by Jeong Han Kim (Korea Institute for Advanced Study); "Social Contagion: A Truly Complex Phenomenon" by Janos Kertesz (Central European University, Hungary); and "Network Neuroscience" by Olaf Sporns (Indiana University, USA). An additional ten invited talks covered diverse topics ranging from social to medical networks.

There were 112 contributed talks and 177 poster presentations, showing the vibrancy of the field and the keen interest shared by a truly international group of interdisciplinary scholars. The Erdos-Renyi prize was awarded to Aaron Clauset (USA), for his contributions to the field. An excursion to the Hangang river on a cruise was very well received by the participants. This year's event concluded with the announcement that next year's NetSci will be hosted in Indianapolis, USA. Many participants expressed their confidence that this year's success would act as a stepping stone for a continued success of future editions of NetSci.

More information on the event can be found at www.netsci2016.net.



Juyong Park is an assistant professor at the Graduate School of Culture Technology at KAIST (Korea Advanced Institute of Science and Technology). After receiving his PhD in statistical physics from the University of Michigan-Ann Arbor he began working at CT-KAIST in 2012. He will assume the role of the scientific chair of the International Symposium on Electronic Art 2019 (ISEA2019), which will take place in Gwangju, Korea.