



	DRONNINGESALEN	BLIXEN	HOLBERG	SAXO	
	SOCIETY I	EPIDEMICS I	MULTIPLEX NETWORKS I	MOBILITY & SPATIAL SYSTEMS I	
13:30	Scientific success: the story of your big hit Roberta Sinatra, Dashun Wang, Chaoming Song, Albert-László Barabási	Limits of Epidemic Source Localization in Complex Networks Nino Antulov-Fantulin, Alen Lancic, Hrvoje Stefancic, Mile Sikic, Tomislav Smuc	13:30 Spreading dynamics on multiplex networks Byungjoon Min, Kwang-II Goh	Comparing Models of Spatial Networks Elias Bamis, Tim Evans, Michael Gastner	13:30
13:50	Novelty, Convention and Scientific Impact Brian Uzzi, Satyam Mukherjee, Michael Stringer, Benjamin Jones	Non-Markovian Infection Spread Dramatically Alters the Susceptible-Infected-Susceptible Epidemic Threshold in Networks R. van de Bovenkamp, P. Van Mieghem	13:50 Avalanche collapse of multiplex networks Gareth Baxter, Sergey Dorogovtsev, A. V. Goltsev, Jose Mendes	Modeling roadway network traffic using a radiation model based on temporal ranges Yihui Ren, Maria Ercsey-Ravasz, Pu Wang, Marta C. Gonzalez, Zoltan Toroczkai	13:50
14:10	World citation and collaboration networks: uncovering the role of geography in science Raj Kumar Pan, Kimmo Kaski, Santo Fortunato	Optimal Vaccine Allocation to Control Epidemic Outbreaks in Arbitrary Networks Victor Preciado	14:10 Generalized dependency network analysis: quantification of group-group interactions Dror Kenett, Wen Fang, Harry Eugene Stanley, Shlomo Havlin	Network Geometry Maksim Kitsak, Fragkiskos Papadopoulos, M. Angeles Serrano, Marian Boguna, Dmitri Krioukov	14:10
14:30	10-MINUTE BREAK	10-MINUTE BREAK	14:30 10-MINUTE BREAK	10-MINUTE BREAK	14:30
	SOCIETY II	EPIDEMICS II	MULTIPLEX NETWORKS II	BIOLOGY I	
14:40	The Atlas of Cultural Development Cesar A. Hidalgo, Amy Yu, Shahar Ronen	Predicting node epidemic risk from past dynamical network data Eugenio Valdano, Chiara Poletto, Vittoria Colizza	14:40 Interacting diseases spreading on interconnected networks Joaquín Sanz, Cheng-Yi Xia, Sandro Meloni, Yamir Moreno	Noise-induced phase transitions in neuronal networks Alexander Goltsev, Marinho Lopes, Kyoungun Lee, Jose Fernando Mendes	14:40
15:00	Building the Iron Cage: The Evolution of Multidimensional Networks in U.S. Congress (1776-2013) and Catholic Hierarchy (1774-2013) B. Keegan, S. Goodman, R. Kennedy, D. Lazer	Proxy networks for human mobility in Europe: the impact on epidemic modeling. M. Tizzoni, P. Bajardi, A. Decuyper, G. K. K. King, C. Schneider, V. Blondel, Z. Smoreda, M. Gonzalez, V. Colizza	15:00 Triadic closure dynamics drives the structure of social multiplex networks Peter Klimek, Stefan Thurner	Exploring the organisation of biomolecules at all scales through multi-resolution graph partitioning. Antoine Delmotte, Sophia N Yaliraki, Mauricio Barahona	15:00
15:20	30-MINUTE BREAK	30-MINUTE BREAK	15:20 30-MINUTE BREAK	30-MINUTE BREAK	15:20
	SOCIAL DYNAMICS I	EPIDEMICS III	SOCIETY III	BIOLOGY II	
15:50	Who You Gonna Call?: Behavioral Signatures of Significant Relationships in Emergency Situations. David Lazer, Devon Brewer, Drew Margolin, Yu-Ru Lin	Modular networks of word correlations on Twitter Pernille Yde, Joachim Mathiesen, Mogens H. Jensen	15:50 Exit-selection in evacuation scenarios under consideration of external influences Jan Ohst, Stefan Ruzika	Integrated genomic and prospective clinical studies show the importance of modular pleiotropy for disease susceptibility, diagnosis and treatment. M. Gustafsson, M.Benson	15:50
16:10	Limited communication capacity unveils strategies for human interaction Esteban Moro, Giovanna Miritello, Ruben Lara, Manuel Cebrian	HIV competition dynamics over dynamical sexual networks Bence Ferdinandy, Enys Mones, Tamás Vicsek, Viktor Müller	16:10 Early-warning signals of topological collapse in interbank networks Tiziano Squartini, Iman Van Lelyveld, Diego Garlaschelli	Power graph compression reveals dominant relationships in genetic transcription networks Sebastian Ahnert	16:10
16:30	Recurrent mobility networks and imperfect imitation shapes voting behavior Juan Fernandez-Gracia, Krzysztof Suchecki, Jose J. Ramasco, Maxi San Miguel, Victor M Eguiluz	Who's the spreader? role of children vs. adults in the local transmission and spatial dissemination of epidemics. Andrea Apolloni, Chiara Poletto, Vittoria Colizza	16:30 Fair sharing of resources in a supply network with constraints Rui Carvalho, Lubos Buzna, Wolfram Just, Dirk Helbing, David Arrowsmith	A Spectral Approach for Identifying Altered Gene Regulatory Networks Rosemary Braun	16:30
16:50	10-MINUTE BREAK	10-MINUTE BREAK	16:50 10-MINUTE BREAK	10-MINUTE BREAK	16:50
	MOBILITY & SPATIAL SYSTEMS II	TEMPORAL NETWORKS I	SOCIETY IV	LINGUISTIC NETWORKS	
17:00	Adaptive networks and collective motion Cristian Huepe, Thilo Gross, Gerd Zschaler, Anne-Ly Do, Li Chen	A New Network Visualization Method of Time Series Data Toshihiro Tanizawa, Tomomichi Nakamura	17:00 Characterizing scientific production and consumption in Physics Qian Zhang, Nicola Perra, Bruno Gonçalves, Fabio Ciulla, Alessandro Vespignani	Global Language Networks and their Implications for Global Culture. Shahar Ronen, Bruno Gonçalves, Kevin Z. Hu, Alessandro Vespignani, Steven A. Pinker, César A. Hidalgo	17:00
17:20	Quantifying success: Impact of Mobility on Scientific Careers. Pierre Deville, Dashun Wang, Chaoming Song, Roberta Sinatra, Vincent Blondel, Albert-Laszlo Barabasi	Unfolding Accessibility as a Macroscopic Approach to Temporal Networks Hartmut Lentz, Thomas Selhorst, Igor Sokolov	17:20 Fostering Peer Interaction to Save Energy Ankur Mani, Claire-Michelle Look, Iyad Rahwan, Thorsten Staake, Elgar Fleisch, Alex Pentland	Dangerous Liaisons: Epistolary Structure and Plot Analysis Thomas Lombardi	17:20

	DRONNINGESALEN	BLIXEN	HOLBERG	SAXO
	ECONOMY	BIOLOGY III	STAT. PHYS. MODELS I	NETWORK THEORY I
13:30	Simmelian brokerage and social capital: Reconciling social cohesion and structural holes Vito Latora, Vincenzo Nicosia, Pietro Panzarasa	A novel method to find clusters in biological networks that uses shared neighbors Erik Sonhammer, Oliver Frings	13:30 Understanding of the explosive percolation in a unified framework Y.S. Cho, Sungmin Hwang, H.J. Herrmann, Byungnam Kahng	13:30 A biased random walk on the words co-occurrence network Yukie Sano, Hideki Takayasu, Misako Takayasu
13:50	Systemic risk in financial networks: DebtRank-transparency Stefan Thurner, Sebastian Poledna	SOCIAL NETWORKS I How often do you meet your Facebook friends? Vedran Sekara, Fariba Karimi, Petter Holme, Sune Lehmann	13:50 Solution of the explosive percolation problem Rui Americo Da Costa, Sergey Dorogovtsev, Alexander Goltsev, José Fernando Ferreira Mendes	13:50 Estimating the resilience of nodes in complex networks under rapid perturbations Rudolf P. Rohr, Serguei Saavedra, Vasilis Dakos, Jordi Bascompte
14:10	DebtRank and impact/vulnerability measures on the credit default swaps financial networks Stefano Battiston, Michelangelo Puliga, Guido Caldarelli, Rahul Kaushik	Structural differences between open and direct communication in an online community Fariba Karimi, Petter Holme	14:10 Hard-core random networks as an effective model of bond percolation on real networks Laurent Hébert-Dufresne, Antoine Allard, Jean-Gabriel Young, Louis Dubé	14:10 Structure of complex networks: Quantifying edge-to-edge relations by failure-induced flow redistribution. Michael Schaub, Jörg Lehmann, Sophia N. Yaliraki, Mauricio Barahona
14:30	10-MINUTE BREAK	10-MINUTE BREAK	14:30 10-MINUTE BREAK	14:30 10-MINUTE BREAK
	SYNCHRONIZATION	SOCIAL NETWORKS II	STAT. PHYS. MODELS II	NETWORK THEORY II
14:40	Towards a model of synchronization inspired by mobile-phone data Philipp Hoewel, Albert-Laszlo Barabasi	Rising tides or rising stars?: Dynamics of shared attention on Twitter during media events. Yu-Ru Lin, Brian Keegan, Drew Margolin, David Lazer	14:40 Non-trivial avalanche size distribution in a perturbed directed sandpile model Nicky Zachariou, Paul Expert, Misako Takayasu, Kim Christensen	14:40 Minimum Dominating Sets in Scale-Free Network Ensembles Ferenc Molnar, Sameet Sreenivasan, Boleslaw K. Szymanski, Gyorgy Korniss
15:00	Remote synchronisation reveals network symmetries Vincenzo Nicosia, Miguel Valencia, Mario Chavez, Albert Diaz-Guilera, Vito Latora	Evolutionary dynamics of time-resolved social interactions Alessio Cardillo, Giovanni Petri, Vincenzo Nicosia, Roberta Sinatra, Jesus Gomez-Gardenes, Vito Latora	15:00 Statistical Mechanics of Multiplex Ensembles: Entropy and Overlap Ginestra Bianconi	15:00 Dominating set approach to controllability of random and complex bipartite networks Jose Nacher, Tatsuya Akutsu
15:20	30-MINUTE BREAK	30-MINUTE BREAK	15:20 30-MINUTE BREAK	15:20 30-MINUTE BREAK
	TEMPORAL NETWORKS II	SOCIAL NETWORKS III	NETWORK CLUSTERING	NETWORK THEORY III
15:50	Time-varying networks and the weakness of strong ties Márton Karsai, Nicola Perra, Alessandro Vespignani	On Relational Sociology Haiko Lietz	15:50 Think Locally: A local perspective on community structure in networks Lucas G. S. Jeub, Prakash Balachandran, Mason A. Porter, Peter J. Mucha, Michael W. Mahoney	15:50 Observability of complex systems Yang-Yu Liu, Jean-Jacques Slotine, Albert-László Barabási
16:10	Modeling temporal networks using random itineraries Alain Barrat, Bastien Fernandez, Kevin Lin, Lai-Sang Young	Threshold-limited spreading in social networks with multiple initiators Pramesh Singh, Sameet Sreenivasan, Boleslaw Szymanski, Gyorgy Korniss	16:10 Detectability limit in community detection Richard Darst, Zohar Nussinov, Santo Fortunato	16:10 Quick or exact - When to use which random graph model to asses statistical significance Wolfgang E. Schlauch, Emöke-Agnes Horvat, Katharina A. Zweig
16:30	Relevance of context and time-frame in bursty dynamics Hang-Hyun Jo, Raj Kumar Pan, Juan Perotti, Kimmo Kaski	Accurate Decision Making in Social Networks Yaniv Altshuler, Alex Pentland	16:30 Community detection by graph Voronoi diagrams David Deritei, Zsolt Iosif Lazar, Istvan Papp, Ferenc Jarai-Szabo, Robert Sumi, Maria Ercsey-Ravasz	16:30 Emergence of Bimodality in Controlling Complex Networks Tao Jia, Yang-Yu Liu, Marton Posfai, Jean-Jaques Slotine, Albert-László Barabási
16:50	10-MINUTE BREAK	10-MINUTE BREAK	16:50 10-MINUTE BREAK	16:50 10-MINUTE BREAK
	SOCIAL DYNAMICS II	SOCIAL NETWORKS IV	MOBILITY & SPATIAL SYSTEMS IV	NETWORK THEORY IV
17:00	Modeling Voluntary Mass Exodus from Organizations Cindy Weng, Yun Huang, Noshir Contractor	Make Geeks Popular: An Adaptive Network Approach to Induce Positive Drift of Students' Grades Diffusing in Their Social Network Hiroki Sayama	17:00 Properties of the Positioning Error of Cell Phone Trajectories Michael Ulm, Peter Widhalm	17:00 Generative network models based on triadic substructures Marco Winkler, Joerg Reichardt
17:20	A Multi-Scale Multi-Cultural Study of Commuting Patterns Incorporating Digital Traces Marta C. Gonzalez, Christian Schneider, Yingxiang Yang, Nathan Eagle, Vitaly Belik	The effects of individual traits on the formation of social networks among first-year college students David Hachen, Omar Lizardo	17:20 Understanding Road Usage Patterns in Urban Areas Pu Wang, Timothy Hunter, Alexandre Bayen, Katja Schechtner, Marta González	17:20 Preserving properties under simplification of real-world networks Neli Blagus, Marko Bajec, Lovro Šubelj

YOUNG RESEARCHER SESSION

- 10:40 **Dashun Wang, Chaoming Song, Albert-László Barabási**
The Science of Success
- 10:50 **Emoke-Agnes Horvat, Andreas Spitz**
Blockbusters or art cinema: Which productions write film history?
Identifying central films in a multiplex film citation network
- 11:00 **Rene Pfitzner**
Betweenness Preference: Quantifying Correlations in the
Topological Dynamics of Temporal Networks
- 11:10 **Nicola Perra**
Random Walks and Search in Time-Varying Networks
- 11:20 **Lijun Sun**
Understanding Metropolitan Collective Encounter Patterns
- 11:30 **Tiago Peixoto**
Parsimonious module inference in large networks
- 11:40 **Enrico Glelean, Raj Kumar Pan, Jari Saramäki, Mikko Sams**
The brain as a time-varying network: multiplex network related to
parallel cognitive processes
- 11:50 **Luis E C Rocha and Vincent Blondel**
Bursts of Vertex Activation and Epidemics in Evolving Networks

FRIDAY JUNE 7

IGNITE SECTION I

- 13:30 **Coco Krumme**: Working for a bad company is bad for your (financial) health: survival
analysis of default rates in an employee-employer network
- 13:35 **Xin Lu**: Linked Ego Networks: Improving Estimate Reliability and Validity with
Respondent-driven Sampling
- 13:40 **Yves-Alexandre de Montjoye, César Hidalgo, Michel Verleysen, Vincent
Blondel**: Unique in the Crowd: The privacy bounds of human mobility
- 13:45 **P. Laffin, A. V. Mantzaris, F. Ainley, A. Otley, D. Higham**: Dynamic Centrality and
Sentiment: Oreo versus Audi, Arsenal versus Tottenham Hotspurs
- 13:50 **Peter Grindrod, Desmond Higham**:
Dynamic Katz in Continuous Time
- 13:55 **C. Poletto, S. Meloni, V. Colizza, Y. Moreno, A. Vespignani**:
Host mobility drives pathogen competition in spatially structured populations
- 14:00 **Ingo Scholtes**: Using Temporal Correlations in the Visualization of Aggregate
Representations of Dynamic Networks
- 14:05 **V. Nicosia, P. Vertes, W. Schafer, V. Latora, E. Bullmore**:
Phase transition in the economically modelled growth of a cellular nervous system
- 14:10 **Amy Yu, Cesar A. Hidalgo, Shahar Ronen**:
The Dynamics of Cultural Imports
- 14:15 **Baruch Barzel**:
Universality in network dynamics

IGNITE SECTION II

- 14:50 **Amitabh Sharma, Jörg Menche, Susan Ghiassian, Albert-László Barabási**:
A Disease Module Captures Novel Candidate Genes and pathways for Asthma
- 14:55 **Thilo Gross**:
Engineering Localized Dynamics in Networks
- 15:00 **M. Garcia-Herranz, E. Moro, M. Cebrian, N.A. Christakis, James H. Fowler**:
Using Friends as Sensors to Detect Global-Scale Contagious Outbreaks
- 15:05 **Serguei Saavedra, Rudolf P. Rohr, Jordi Bascompte**:
Structural stability as an integrative approach to study complex dynamical networks
- 15:10 **Michele Starnini, Andrea Baronchelli, Romualdo Pastor Satorras**:
Modeling human dynamics of face-to-face interaction networks
- 15:15 **Daniel Smilkov, Cesar Hidalgo, Ljupco Kocarev**:
Heterogenous susceptibility make networks more vulnerable to epidemic spreading
- 15:20 **Iyad Rahwan, Alex Rutherford, Manuel Cebrian**:
You Can Run, But You Can Hide: Social Mobilization in a Global Manhunt
- 15:25 **A. Gabrielli, S. Battiston, G. Caldarelli, N. Musmeci, M. Puliga**: Bootstrapping
topological properties and systemic risk of complex networks using the fitness model
- 15:30 **Vitor H P Louzada, Nuno Azevedo Machado Araujo, Jose Soares Andrade Jr.,
Hans Jürgen Herrmann**: Dynamics of interconnected networks with time delay
- 15:35 **Alexander Petersen**:
Batman and Robin: understanding the role of tie-strength within superstar careers

IGNITE SECTION III

- 16:00 **Juyong Park**:
Bayesian Inference of Natural Rankings in Incomplete Competition Networks
- 16:05 **Claudio Juan Tessone, Marco Bardoscia, Giancarlo De Luca, Giacomo Livan,
Matteo Marsili**: The Social Climbing Game
- 16:10 **P. Grabowicz, J.J. Ramasco, B. Goncalves, V. M Eguiluz**: Link to People You Meet
and Visit People You Know: a Coupled Model of Human Mobility and Tie Formation.
- 16:15 **Yamir Moreno**:
Broadcasters and Hidden Influentials in Online Protest Diffusion
- 16:20 **Malgorzata Turalska, Paolo Grigolini, Bruce J. West**:
Role of committed minorities in times of crisis
- 16:25 **David Meyer, Orest Bucicovschi, Rex Douglass, Megha Ram, David Rideout,
Dongjin Song**: Comparing social divisions using network data
- 16:30 **Martin Rosvall, Alcides Viamontes Esquivel, Andrea Lancichinetti, Jevin West
and Renaud Lambiotte**: Networks with Memory
- 16:35 **Piotr Sapiezynski, Arkadiusz Stopczynski, David Lazer, Sune Lehmann**:
Reconstructing Cognitive Networks from Co-presence Events
- 16:40 **Tue Herlau, Morten Mørup, Mikkel Schmidt**:
Temporally Evolving Hierarchies in Networks
- 16:45 **Francesc Font-Clos, Álvaro Corral**:
Scaling laws for language networks: Zipf's law and beyond