NetSci
International School and Conference on Network Science
11 - 15 June 2018 • Paris • France

Scientific Program of NetSci 2018 Conference

Program glance updated to May 31, 2018. Updated changes of contributed sessions are available in the CAM

WED, June 13

8.30am		**Opening**
9am	Chair: A. Barrat	**Fil Menczer** - The spread of misinformation in social media [PLOS Lecture]
9.45am		**Miriah Meyer** – Designing effective visualizations
10.30-11.15am		*Coffee break in the poster area*
11.15am		Epidemics-1 Theory-1 Social systems-1 Brain-1 Structures-1
1-2.30pm		*Lunch break in the poster area*
2.30pm		Epidemics-2 Theory-2 Social systems-2 Ecology Structures-2
4.30-5.15pm		*Coffee break in the poster area*
5.15pm	Chair: F.Menczer	**Brooke Foucault Welles** - Network Science, Activism, and Social Change: The Rise of Networked Counterpublics
5.45pm		**Stefano Battiston** - The price of complexity in financial networks [Chaos, Solitons & Fractals Lecture]
6.15-7pm		Poster Session 1

THU, June 14

8.15-8.45am		Chat with the experts
9am	Chair: Y.Moreno	**Mason Porter** - Centrality in Time-Dependent Networks [Springer Complexity Lecture]
9.45am		**Sonia Kéfi** - Diversity of interaction types and the functioning of ecological communities
10.15am		**Sam Scarpino** - Network heterogeneity induces entropy barriers in social contagion
10.45-11.30am		*Coffee break in the poster area*
11.30am		Epidemics-3 Theory-3 Social systems-3 Biology Economics-1
1-2.30pm		*Lunch break in the poster area*
		#ShareYourCode twitter chat with @PLOSONE
2.30pm		Lightning talks
3.35-3.50pm		*Short break*
3.50pm		**Erdős-Rényi Award**
5.10-6.15pm		*Coffee break in the poster area*
5.30-6.15		***Scientific publishing and communication*** – Federico Levi (Nature Physics)
		Society Board Meeting
6.15-7pm		Poster Session 2

FRI, June 15

8.15-8.45am		Chat with the experts
9am	Chair: V. Colizza	**Rowland Kao** - Big Models for Big Data - exploiting the network of cattle movements in Great Britain to understand a complex multi-host pathogen system
9.45am		**Claudia Wagner** - Minorities in social networks
10.15am		**Amy Wesolowski** - Understanding the role of human connectivity on the spatial dynamics of malaria
10.45-11.30am		*Coffee break in the poster area*
11.30am		Spread-1 Theory-4 Social systems-4 Theory-5 Economics-2
1-2.30pm		*Lunch break in the poster area*
1.30-2.15		***Ask me anything*** w/ Physical Review editors
2.30pm		Epidemics-4 Spread-2 Social systems-5 Brain-2 Structures-3
4.15-5pm		*Coffee break in the poster area*
5pm	Chair: M. Porter	**Brenda McCowan** - Characterizing social stability and its effects on individual and societal health using network dynamics
5.45		**Sophie Achard** - Assessing reliability of resting-state fMRI graph analysis: challenges in measuring brain connectivity networks alterations for clinical applications
6.15-6.30pm		Awards & Closure

8pm	Social Dinner

Keynote talks: 40'+4' (Q&A)
Invited talks: 25'+4' (Q&A)
Contributed talks: 12'+2' (Q&A)
Lightning talks: 5' (20 slides automatically advancing every 15")
Poster: A0 (A-zero) portrait (vertical)

Wednesday June 13
Morning session

Epidemics-1	Theory-1	Social systems-1	Brain-1	Structures-1
Chair: P. Hoevel	Chair: M. Karsai	Chair: C. Cattuto	Chair: J. Buldu	Chair: L. Gauvin
#470. Shweta Bansal. Sex, synchrony & skin contact: integrating network data in bottlenose dolphins to assess disease transmission risk	#19. Manlio De Domenico. Spectral entropy: an information-theoretic approach to complex network comparison	#442. Jelena Grujic, Miljana Radivojevic and Marko Porcic. How can we use the complex networks to re-evaluate the concept of archaeological cultures?	#13. Farid Hamzei-Sichani, Stefan Fuertinger and Kristina Simonyan. Network Biomarkers of Epileptogenesis in Drug-resistant Human Epilepsy	#122. Amir Ghasemian, Homa Hosseinmardi and Aaron Clauset. Evaluating Overfit and Underfit in Models of Network Community Structure
#82. Davide Colombi, Chiara Poletto, david Emmanuel Rivalyn nakouné Yandoko, Herve Bourhy and Vittoria Colizza. Demographic and biological drivers of rabies persistence in a large dog population in Africa	#395. Jun Sun, Fariba Karimi and Steffen Staab. Decay of Relevance in Exponentially Growing Networks	#538. Tina Eliassi-Rad, Max Goplerud, Charalampos Mavroforakis, Pablo Suárez-Serrato and Evimaria Terzi. Role Discovery in Networks: Node Features vs. Graph Structure	#184. Robert Mccutcheon, Matthew Nour, Sameer Jauhar, Tarik Dahoun, Fiona Pepper, Mitul Mehta and Oliver Howes. The Relationship Between Limbic Dopamine Function and Brain Resting State Networks: An Integrative PET and MR study	#341. Mauro Faccin, Michael T. Schaub and Jean-Charles Delvenne. Dynamical Markov Modules
#587. Gaël Beaunée, Pauline Ezanno, Alain Joly, Pierre Nicolas and Elisabeta Vergu. Knowledge of animal trade network provides insights on paratuberculosis in cattle and facilitates estimation of key parameters of a metapopulation model	#491. Ignacio Morer, Alessio Cardillo, Luce Prignano, Sergi Lozano and Albert Diaz-Guilera. Efficiency-based comparison and design of spatial networks	#435. Giovanna Miritello, Manuel Cebrián, Cesar Hidalgo and Esteban Moro. Tie strength precedes social embededdness	#197. Sanjukta Krishnagopal, Rainer Von Coelln, Lisa Shulman and Michelle Girvan. Determining Parkinson's Subtypes through Trajectory Clustering in Bipartite Networks	#436. Hoi To Wai, Santiago Segarra, Asuman E. Ozdaglar, Anna Scaglione and Ali Jadbabaie. Blind Community Detection from Rank-Deficient Data
#76. Bryan Iotti, Eugenio Valdano, Lara Savini, Luca Candeloro, Armando Giovannini, Sergio Rosati, Vittoria Colizza and Mario Giacobini. Farm Productive Realities And The Dynamics Of Bovine Viral Diarrhea (BVD) Transmission	#355. Giovanni Petri and Alain Barrat. Simplicial Activity Driven Model: how temporal group structure affects dynamics	#85. Fabio Dercole, Fabio Della Rossa and Carlo Piccardi. Rethinking network reciprocity over social ties: local interactions make direct reciprocity possible and pave the rational way to the public good	#204. Peter Taylor, Nishant Sinha, Yujiang Wang, Sjoerd Vos, Jane de Tisi, Anna Miserocchi, Andrew McEvoy, Gavin Winston and John Duncan. Predicting the impact of epilepsy surgery on structural connectome and its relation to seizure freedom	#99. Ulf Aslak, Martin Rosvall and Sune Lehmann. Constrained information flows in temporal networks reveal intermittent communities
#109. Andrea Apolloni, Maxime Lenormand, Mamadou Ciss and Ahmed Salem El Arby. Livestock Mobility in West Africa: network analysis and applications	#510. Timothy Larock, Timothy Sakhrov, Sahely Bhadra and Tina Eliassi-Rad. Limits of Learning in Incomplete Networks	#276. Fariba Karimi. Homophily explains perception biases in social networks	#75. Esther Ibáñez, Lisa Campioni, Angkoon Phinyomark, Enrica L Santarcangelo and Giovanni Petri. Topological features of functional equivalence between imagery and perception	#107. Filippo Radicchi. Decoding communities in networks
#11. Goylette Chami, Narcis Kabatereine, Edridah Tukahebwa and David Dunne. Precision global health and comorbidity in rural Uganda	#1. Greg Morrison. Betweenness Centrality in Signed Networks	#309. Yuan Yuan, Ahmad Alabdulkareem and Alex Pentland. A Social Network Formation Model Trading-off Exchange effect and Homophily	#284. Sarah Morgan, Jonathan Young, Ameera Patel, Kirstie Whitaker, Cristina Scarpazza, Therese van Amelsvoort, Machteld Marcelis, Jim van Os, Gary Donohoe, David Mothersill, Aiden Corvin, Martijn van den Heuvel, Michael Brammer and Edward Bullmore. Using brain networks to classify schizophrenic patients vs controls: How important is topology?	#164. Tiago Peixoto. Nonparametric weighted stochastic block models
#449. Abigail Horn, Hanno Friedrich and Elena Polozova. Identifying the Food and Location Source of Large-Scale Outbreaks of Foodborne Disease	#194. Jean-Gabriel Young, Laurent Hébert-Dufresne, Edward Laurence, Charles Murphy, Guillaume St-Onge and Patrick Desrosiers. Network archeology: phase transition in the recoverability of network history	#229. Sungkyu Park, Sang Won Lee and Meeyoung Cha. Exploring Intricate relationship among behavioral, biological, and sleeping dimensions	#352. Enrico Amico, Alex Arenas and Joaquin Goni. Centralized and distributed cognitive task processing in the human connectome	#360. Zhenhai Chang, Hui-Min Cheng, Chao Yan, Xianjun Yin and Zhong-Yuan Zhang. On approximate equivalence of modularity, modularity density and non-negative matrix factorization

Wednesday June 13
Afternoon session

Epidemics-2	Theory-2	Social systems-2	Ecology	Structures-2
Chair: S. Scarpino	Chair: T. Eliassi-Rad	Chair: L. Aiello	Chair: S. Kefi	Chair: T. Peixoto
#557. Abigail Jacobs, Mathijs De Vaan and Toby Stuart. The social structure of the opioid epidemic	#36. Ginestra Bianconi. Rare events and discontinuous phase transitions	#51. Giulia Pullano, Bernardo Monechi and Vittorio Loreto. Unraveling the Links between Network Dynamics and Efficiency in a Collective Creativity Experiment	#20. Samir Suweis, Chengyi Tu, Jacopo Grilli, Marco Formentin and Amos Maritan. Cooperation promotes biodiversity and stability in a model ecosystem	#465. Cristian Huepe, Benjamin Maier and Dirk Brockmann. Dynamics and Evolution of Modular Hierarchical Networks
#149. Sergio Arregui, Joaquín Sanz and Yamir Moreno. On the relation between contact patterns and demographic structure	#55. Kaj Kolja Kleineberg, Lubos Buzna, Fragkiskos Papadopoulos, Marian Boguna and M. Ángeles Serrano. Geometric correlations mitigate the extreme vulnerability of multiplex networks against targeted attacks	#334. Massimo Stella, Emilio Ferrara and Manlio De Domenico. Bots' influence in online social networks during massive voting events	#65. Theo Gibbs, Jacopo Grilli, Tim Rogers and Stefano Allesina. The effect of population abundances on the stability of large random ecosystems	#84. Jeroen van Lidth de Jeude, Tiziano Squartini and Guido Caldarelli. Detecting Core-Periphery Structures by Surprise
#434. Ewan Colman and Shweta Bansal. Social fluidity mobilizes contagion in human and animal populations	#273. Young-Ho Eom. Hidden vulnerability of modular networks to the spread of perturbations	#374. Flavio Pinheiro, Sanjay Guruprasad and César Hidalgo. The Influence of Collaboration Networks on Programming Language Acquisition	#159. Yamir Moreno. Biodiversity and Structural Stability of Multilayer Ecological Networks	#112. Joseph Crawford, Yuriy Hulovatyy and Tijana Milenkovic. New computational directions for community detection in dynamic networks
#310. Emanuele Massaro, Alexander Ganin, Nicola Perra, Igor Linkov and Alessandro Vespignani. Resilience management during large-scale epidemic outbreaks	#259. Dana Vaknin, Michael Danziger and Shlomo Havlin. Spreading of localized attacks in spatial multiplex networks	#567. Orr Levy, Yoed Kenett, Dror Kenett, Gene Stanley, Miriam Faust and Shlomo Havlin. Flexibility of thought in high creative individuals represented by percolation analysis	#136. Shai Pilosof, Mason Porter, Mercedes Pascual and Sonia Kéfi. Ecological multilayer networks: From basic definitions to structure and stability	#130. Joshua Cape, Minh Tang and Carey E. Priebe. On spectral embedding performance and elucidating network structure in stochastic block model graphs
#383. Tjibbe Donker. Spread of control failure through hospital networks	#263. Hillel Sanhedrai, Baruch Barzel and Shlomo Havlin. Recovering non-linear dynamics in complex networks	#386. Livio Bioglio, Ruggero G. Pensa and Valentina Rho. Inspiration Rate by Topic in Bibliographic Networks	#72. Ana M. Martin Gonzalez. Central-peripheral roles and species traits in ecological interaction networks	#150. Mark Humphries, Javier Caballero, Mat Evans, Silvia Maggi and Abhinav Singh. Spectral rejection for testing hypotheses of structure in networks
#428. Munik Shrestha, Samuel Scarpino, Erika Edwards, Lucy Greenberg and Jeffrey Horbar. The Interhospital Transfer Network for Very Low Birth Weight Infants in the United States	297. Laurent Hébert-Dufresne and Antoine Allard. Sequential phase transitions in percolation on complex networks	#462. Lovro Šubelj, Ludo Waltman, Vincent Antonio Traag and Nees Jan Van Eck. Intermediacy of publications	#344. Massimo Stella, Sanja Selakovic, Alberto Antonioni and Cecilia Andreazzi. Ecological interactions determine role of species in parasite spread amplification: The ecomultiplex network model	#183. Shi Zhou, Xianglei Yu and Ingemar J. Cox. Evidence of the Second-Order Assortative Mixing as a New Network Property
#489. Jeffrey Lienert, Christopher Marcum, John Finney, Laura Koehly and Felix Reed-Tsochas. Detection of subclinical infection and structure of co-presence networks help explain hospital-acquired infection	#331. Xiao-Long Ren, Niels Gleinig, Dirk Helbing and Nino Antulov-Fantulin. Generalized Network Dismantling	#335. Malgorzata Turalska and Ananthram Swami. Language at the border: emergence of dialects and bilingual communities	#27. Ellie Nagaishi and Kazuhiro Takemoto. Resilience of plant–animal mutualistic networks is associated with environmental changes	#303. Alessandro Muscoloni and Carlo Vittorio Cannistraci. A nonuniform popularity-similarity optimization (nPSO) model to efficiently generate realistic complex networks with communities
#401. Nils Haug, Stefan Thurner and Peter Klimek. Predicting human disease trajectories with healthcare multiplex networks	#439. Verena Schamboeck, Ivan Kryven and Piet Iedema. The size of the giant component in the Euclidean space-embeddable random graphs with arbitrary degree distributions	#590. Samuel Fraiberger, Roberta Sinatra, Christoph Riedl and Laszlo Barabasi. Quantifying Reputation and Success in Art	#232. Maxime Lenormand and Sandra Luque. Multiscale socio-ecological networks in the age of information	#513. Krishna Bathina and Filippo Radicchi. Error-Correcting Decoders for Communities in Networks

Thursday June 14
Morning session

Epidemics-3	Theory-3	Social systems-3	Biology	Economics-1
Chair: M. Tizzoni	Chair: G. Bianconi	Chair: T. Yasseri	Chair: V. Pancaldi	Chair: A. Gabrielli
#421. Andreas Koher, Hartmut H.K. Lentz, James P. Gleeson and Philipp Hövel. Dynamic Message Passing for Epidemics on Temporal Networks	#407. Catalina Obando and Fabrizio De Vico Fallani. Temporal metrics for exponential random graph models of time-evolving networks	#54. Iacopo Iacopini, Stasa Milojevic and Vito Latora. Network dynamics of innovation processes	#362. Istvan Kovacs and Albert-Laszlo Barabasi. Network-based prediction of biological interactions	179. Nadia Ameli, Guido Caldarelli, Giacomo Livan and Matteo Ottaviani. The Climate Finance Network
#347. Eugenio Valdano, Michele Re Fiorentin, Chiara Poletto and Vittoria Colizza. Epidemic threshold in continuous-time evolving networks	#289. Bnaya Gross, Ivan Bonamassa, Michael Danziger and Shlomo Havlin. Crossover characterizes a realistic spatial network model	#58. Sebastian Deri, Jérémie Rappaz, Luca Maria Aiello and Daniele Quercia. The Human Perception of Social Relationships	#356. Martina Hall and Eivind Almaas. Approach for generating biological networks using Bayesian statistics and variable selection methods	#388. Haoting Zhang, Penny Mealy and Neave O'Clery. Locked out of the green transition? Mapping urban development paths in a carbon constrained world
#531. Michele Tizzani, Simone Lenti, Claudio Castellano, Alessandro Vezzani, Raffaella Burioni and Enrico Ubaldi. Epidemic spreading on temporal networks with memory effects	#298. Giulia Cencetti, Pau Clusella and Duccio Fanelli. Dynamical invariance on complex networks	#118. Shankar Iyer and Lada Adamic. Overseeding in Social Networks	#260. Christian Schulz and Eivind Almaas. Using reaction networks to identify cross-organism-wide genes with conserved functions	#88. Carlo Piccardi and Lucia Tajoli. Complexity, Centralization, and Vulnerability of Economic Networks
#333. Bastian Prasse and Piet Van Mieghem. Network Reconstruction from Viral State Observations of SIS Models seems Infeasible	#40. Enrico Ser-Giacomi, Emilio Hernández-García, Cristóbal López, Vincent Rossi, Ruggero Vasile, Alberto Baudena and Francesco d'Ovidio. Unveiling geophysical transport skeleton using Lagrangian Flow Networks	#580. Meysam Alizadeh, Santo Fortunato, Ingmar Weber and Michael Macy. Social Contagion of Political Extremism	#515. Pramesh Singh, Tianlong Chen, Zebulun Arendsee, Eve Wurtele and Kevin Bassler. Regulatory network analysis of orphan genes in Arabidopsis thaliana using modularity and its variant measures	#282. Andrea Zaccaria, Lorenzo Napolitano, Luciano Pietronero and Emanuele Pugliese. Firms' Complexity: Technological Scope, Coherence and Performance
#371. Xavier R. Hoffmann and Marian Boguna. Synergistic cumulative contagion in epidemic spreading	#135. Kunihiko Taira, Muralikrishnan Gopalakrishnan Meena and Aditya Nair. Community-based model reduction of unsteady vortical flows	#503. Sébastien Lerique, Éric Fleury and Márton Karsai. Linguistic and social network coevolution: joint analysis of heterogeneous sources of information in Twitter	#60. Fernanda Valdovinos, Eric Berlow and Neo Martinez. Invading plant-pollinator networks: Aliens' traits predict their success and network structure predicts their impacts	#432. Michele Starnini, Marian Boguna and M. Ángeles Serrano. The interconnected wealth of nations: Shock propagation on multiplex macroeconomic networks
#264. Jose Luis Herrera Diestra, Johann Martínez and Javier Buldú. Dynamical and topological characterization of the symbolic networks of disease outbreaks	#480. Radosław Michalski, Boleslaw Szymanski, Przemysław Kazienko, Christian Lebiere, Omar Lizardo and Marcin Kulisiewicz. CogSNet: Cognition-driven Social Network	#200. Palash Goyal, Anna Sapienza and Emilio Ferrara. Recommending Teammates with Deep Neural Networks	#49. Paolo Moretti, Ali Safari and Miguel A. Muñoz. Tuning activity spreading in hierarchical modular networks	#446. Eaman Jahani, Pål Sundsøy, Esteban Moro and Alex Pentland. Differential Network Effects on Economic Outcomes: A Structural Perspective

Thursday June 14
Afternoon session

Lightning talks

Chair: C. Vestergaard

#31. Francesco Coghi and Ginestra Bianconi. Robustness of real multiplex networks: a large deviation approach
#97. Vaiva Vasiliauskaite and Tim S. Evans. Network analysis of perfumes
#168. Dhaval Adjodah, Dan Calacci, Abhimanyu Dubey, Yan Leng, Peter Krafft, Esteban Moro and Alex Pentland. Optimizing Inter-Agent Communication Networks for Improved Deep Reinforcement Learning
#189. Baruch Barzel. Dynamic patterns of information flow in complex networks
#192. William Cunningham. Inference of Boundaries in Causal Sets
#207. Livia Teernstra and Justus Uitermark. Political coalitions and divisions on Twitter in 18 countries
#363. Florian Klimm, Charlotte Deane, Jonny Wray and Mason Porter. Modular Structure in Temporal Protein Interaction Networks
#443. Jacob Biamonte. Information theory unites parts of quantum mechanics with complex networks
#448. Rion Correia, Nathan Ratkiewicz, Alain Barrat and Luis M. Rocha. The Metric Backbone of Contact Networks in Epidemic Spread Models
#481. John Ternovski and Taha Yasseri. Social Influence in Music Listenership: A Natural Experiment on 1.3 Million Last.fm Users
#505. Matúš Medo, An Zeng, Yi-Cheng Zhang and Manuel Sebastian Mariani. Community detection in growing networks with aging
#529. Alan Roncoroni, Stefano Battiston, Marco D'Errico, Grzegorz Halaj and Christoffer Kok. Interconnected Banks and Systemically Important Exposures

Friday June 15
Morning session

Spread-1	Theory-4	Social systems-4	Theory-5	Economics-2
Chair: C. Poletto	Chair: F. Radicchi	Chair: B. Foucault-Welles	Chair: N. Perra	Chair: G. Caldarelli
#283. James Gleeson. Temporal profiles of avalanches on networks	#516. Andrea Santoro and Vincenzo Nicosia. Information-theoretic complexity of multiplex networks	#328. Michael Szell, Yifang Ma and Roberta Sinatra. Interdisciplinarity and the Nobel Prize	#431. Ingo Scholtes. Entropy-based detection of inherent time scales in temporal networks	#209. Luiz G. A. Alves, Giuseppe Mangioni, Isabella Cingolani, Francisco Rodrigues, Pietro Panzarasa and Yamir Moreno. The nested structural organization of the worldwide trade multi-layer network
#387. Alberto Antonioni and Alessio Cardillo. Coevolution of synchronization and cooperation in costly networked interactions	#281. Sarah de Nigris, Esteban Bautista, Patrice Abry, Kostantin Avrachenkov and Paulo Gonçalves. Fractional Graph-Based Semi-Supervised Learning	#400. Peter Klimek, Robert Kreuzbauer and Stefan Thurner. Counter-dominance signaling drives evolution of cultural elites: quantitative evidence from fashion cycles in music	#241. María Óskarsdóttir, Tine Van Calster, Bart Baesens, Wilfried Lemahieu and Jan Vanthienen. A representation of dynamic networks for early churn detection in telco	#312. Rebekka Burkholz and Frank Schweitzer. Application of Temporal Multiplex Networks to Cascade Processes in Food Trade
#373. Ivan Bonamassa, Michael M. Danziger, Shlomo Havlin and Stefano Boccaletti. Coupled collective phenomena in multilayer complex systems	#453. Leonardo Torres, Pablo Suárez Serrato and Tina Eliassi-Rad. A Study of Cycle Length Spectra	#389. Morgan Frank, Esteban Moro and Iyad Rahwan. The hidden constraints of career mobility: how skills determine a worker's next move	#585. Aming Li, Sean Cornelius, Yang-Yu Liu, Long Wang and Albert-László Barabási. The fundamental advantages of temporal networks	#562. Johannes Wachs and Janos Kertesz. Network Methods to Detect Cartels in Public Auction Markets
#53. Byungjoon Min and Maxi San Miguel. Contagion processes with heterogeneous adoptability and compatibility	#302. Alessandro Muscoloni and Carlo Vittorio Cannistraci. Minimum curvilinear automata with similarity attachment for network embedding and link prediction in the hyperbolic space	#402. Sebastian Ahnert and Ruth Ahnert. Analysing Historical Networks of Power	#398. Michael Schaub, Marco Avella-Medina, Francesca Parise and Santiago Segarra. Graphon centrality measures for uncertain networks	#509. Andre Voigt and Eivind Almaas. Pyramid scheme or medium of exchange? Time-dependent directed modelling of blockchain-based cryptocurrencies
#243. Karel Devriendt and Piet Van Mieghem. Tighter spectral bounds for the cut-set	#445. James Bagrow and Erik Bollt. An information-theoretic, all-scales approach to comparing networks	#424. Samuel Martin-Gutierrez, Juan Carlos Losada and Rosa M. Benito. Recurrent patterns of user behavior in different electoral campaigns	#454. Elisenda Ortiz, Michele Starnini and M. Ángeles Serrano. Navigability of temporal networks in hyperbolic space	#102. Andrea Gabrielli, Giulio Cimini, Aurelio Patelli, Luciano Pietronero, Emanuele Pugliese and Andrea Zaccaria. Unfolding the innovation system for the development of countries: co-evolution of Science, Technology and Production
#525. Yong Zhuang and Osman Yağan. Multi-Stage Complex Contagions in Random Multiplex Networks	#140. Muralikrishnan Gopalakrishnan Meena and Kunihiko Taira. High-dimensional turbulence network characterization and modeling	#528. Yan Leng, Xiaowen Dong, Esteban Moro and Alex Pentland. A Bayesian Learning Model for Decision-making in Social Networks	#519. Martin Gueuning, Renaud Lambiotte and Jean-Charles Delvenne. Backtracking on Uncorrelated Temporal Networks	#542. Chiara Perillo and Stefano Battiston. Real implications of quantitative easing in the euro area: a financial network analysis

Friday June 15
Afternoon session

Epidemics-4	Spread-2	Social systems-5	Brain-2	Structures-3
Chair: S. Bansal	Chair: J Gleeson	Chair: C. Wagner	Chair: D. Battaglia	Chair: KK Kleineberg
#26. Matthieu Nadini, Kaiyuan Sun, Enrico Ubaldi, Michele Starnini, Alessandro Rizzo and Nicola Perra. Epidemic spreading in modular time-varying networks	#213. Bruno Coutinho and Yasser Omar. Quantum Routing for Complex Quantum Networks	#177. Sebastian Grauwin, Michael Szell, Stanislav Sobolevsky, Philipp Hovel, Filippo Simini, Maarten Vanhoof, Zbigniew Smoreda, Albert-Laszlo Barabasi and Carlo Ratti. Structural discontinuities of human interactions in space	#21. I. Leyva, I. Sendiña-Nadal, R. Sevilla-Escoboza, V. P. Vera-Avila and S. Boccaletti. Relay synchronization in multiplex networks	#456. Daniel Larremore, Caterina De Bacco and Cristopher Moore. A physical model for efficient ranking in networks
#329. Alexandre Darbon, Davide Colombi, Eugenio Valdano, Lara Savini, Armando Giovannini and Vittoria Colizza. Varying infectious period and temporal networks: impact on disease persistence	#511. Emanuele Cozzo, Conrad Pérez-Vicente and Albert Diaz-Guilera. Abrupt transition of the diffusion slowdown in temporal multiplex networks	#176. Jose J. Ramasco. Field Theory for recurrent mobility	#244. Ahmad Mheich, Mahmoud Hassan and Fabrice Wendling. SimiNet: a Novel Method for Quantifying Brain Network Similarity	#79. Giulia Lerda, Esther Ibáñez, Alain Barrat, Federica Galluzzi and Giovanni Petri. Simplicial degree matrices: a local connectivity measure for simplicial complexes
#92. Tomokatsu Onaga, James P. Gleeson and Naoki Masuda. Concurrency-induced transitions in epidemic processes on temporal networks	#101. Agnieszka Czaplicka, Sandro Meloni and Yamir Moreno. Projections of bipartite networks and dynamical aftereffects	#66. Carlos Sarraute, Martin Fixman, Martin Minnoni and Matias Travizano. Featurization Methods and Predictors for Income Inference Based on Communication Patterns	#63. Federico Battiston, Jeremy Guillon, Mario Chavez, Vito Latora and Fabrizio De Vico Fallani. Multiplex core-periphery structure of the human connectome	#195. Giacomo Rapisardi, Guido Caldarelli, Giulio Cimini and Alex Arenas. Multiple structural transition of interacting networks
#535. Sandro Meloni, Fakhteh Ghanbarnejad, David Soriano-Panos, Jesus Gomez-Gardenes and Yamir Moreno. Dynamics of cooperative and competitive diseases on networks	#314. Alexey Medvedev, Renaud Lambiotte and Jean-Charles Delvenne. Modelling structure and predicting dynamics of discussion threads in online boards using Hawkes processes	#520. Bailey Fosdick, Wesley Lee and Tyler McCormick. Inferring underlying social structure from continuous-time interaction data	#15. Caio Seguin and Andrew Zalesky. Navigation of brain networks	#38. Teruyoshi Kobayashi, Taro Takaguchi and Alain Barrat. Backboning temporal networks
#286. Francesco Pinotti, Fakhteh Ghanbarnejad, Philipp Hoevel and Chiara Poletto. Interplay between competition and cooperation in multi-pathogen systems	#270. Laura Alessandretti, Kaiyuan Sun, Andrea Baronchelli and Nicola Perra. Random walks on activity-driven networks with attractiveness	#37. Mathieu Génois. How do researchers connect during a conference?	#417. Jil Meier, Leonard van den Berg and Martijn van den Heuvel. Connectome-based disease progression model for amyotrophic lateral sclerosis	#143. Palash Goyal, Homa Hosseinmardi, Emilio Ferrara and Aram Galstyan. Embedding Networks with Edge Attributes
#35. Antoine Moinet, Alain Barrat and Romualdo Pastor Satorras. Effect of risk perception on epidemic spreading in temporal networks	#108. Diego F. M. Oliveira and Kevin S. Chan. Competition and spreading of low and high quality information in online social networks	#201. Riccardo Gallotti and Jose J. Ramasco. Reconstructing the European air passengers flows' network from geo-located tweets	#546. Xerxes Arsiwalla and Paul Verschure. Computing Integrated Information for Network Dynamics Near Criticality	#224. Stanislav Sobolevsky. Inferring hierarchical structure of spatial and generic complex networks through a modeling framework
#390. Benjamin Steinegger, Alessio Cardillo, Paolo De Los Rios, Jesús Gómez-Gardeñes and Alex Arenas. Trade-off between risk perception and vaccine effectiveness triggers nontrivial vaccine uptake in coevolutionary dynamics on networks	#589. Sungmin Lee, Jaewoo Kim, Kyu-Min Lee and Kwang-Il Goh. Threshold cascade dynamics on signed networks	#474. Esteban Moro Egido, Dan Calacci, Xiaowen Dong and Alex Pentland. Economical Segregation of Encounter Networks in cities	#90. Dimitri Van De Ville and Maria Giulia Preti. Graph spectral analysis for modified diffusion flow: application to C. Elegans connectomics	#523. Brennan Klein and Erik Hoel. Quantifying the Causal Structure of Networks

Wednesday June 13
Evening session

Poster session 1

#104	Chia-Hung Yang and Sam Scarpino	Speciation Results from Gene Network Evolution
#110	Roman Bauer, Gavin Clowry and Marcus Kaiser	The crucial role of cell death for cortical layer formation
#113	Fazle Faisal, Khalique Newaz, Julie Chaney, Jun Li, Scott Emrich, Patricia Clark and Tijana Milenkovic	GRAFENE: Graphlet-based alignment-free network approach integrates 3D structural and sequence (residue order) data to improve protein structural comparison
#167	Jinha Park and Byungnam Kahng	Tiered synchronization for consciousness recovery sequence
#191	Gabrielle Schroeder and Yujiang Wang	Clustering intra-patient seizures based on functional network evolution
#205	Giulia Bassignana, Jennifer Fransson, Olivier Colliot, Violetta Zujovic and Fabrizio De Vico Fallani	Identification of driver nodes in genetic networks regulating macrophage activation
#233	Soobeom Jang, Seong-Eun Moon and Jong-Seok Lee	Graph Signal Modeling of EEG and its Application to EEG-based Video Classification using Deep Learning on Graphs
#12	Fabrizio Damicelli, Marc-Thorsten Hütt, Claus Christian Hilgetag and Arnaud Messé	On a Universal Principle of the Emergence of Brain Network Modularity
#43	Alessandro Crimi, Luca Dodero, Vittorio Murino and Diego Sona	Effective Brain Connectivity obtained from Constrained Structural Models
#83	Alexandros Goulas and Claus Hilgetag	Heterochronicity in the ontogeny of networks as a mechanism for the generation of intricate connectional patterns: application to mammalian cortical connectomes
#171	Jennifer Stiso, Ankit Khambhati, Tommaso Menara, Ari Kahn, Kathryn Davis, Joseph Tracy, Timothy Lucas, Fabio Pasqualetti and Danielle Bassett	Structural Connectivity Guides Direct Cortical Stimulation Through Optimal State Transitions
#238	Jiyoung Kang and Hae-Jeong Park	Analysis of state transition networks of resting-state human brain
#249	Hannelore Aerts, Michael Schirner, Ben Jeurissen, Van Roost Dirk, Achten Eric, Ritter Petra and Marinazzo Daniele	Modeling brain dynamics in brain tumor patients using The Virtual Brain
#409	Ouri Wolfson and Aishwarya Vijayan	Is the Brain a Resource Discovery Network?
#447	Jose Brum, Emma Towlson, Nima Dehmamy and Albert-László Barabási	Relationship between topology and geometry in the 3d mouse brain connectivity network
#96	Vaiva Vasiliauskaite and Tim S. Evans	Centrality in Directed Acyclic Graphs
#228	Yuang Wang, Hongfu Liu, Baoan Ren and Jing Chen	Node centrality analysis of multiplex networks under rumor spreading
#316	Miguel Romance, Esther Garcia, Francisco Pedroche and Regino Criado	Controlling PageRank centrality: Classic vs. Biplex model
#353	Flavio Iannelli, Manuel Sebastian Mariani and Igor Sokolov	Network centrality based on reaction-diffusion dynamics reveals influential spreaders
#94	Vaiva Vasiliauskaite and Tim S. Evans	Diversity from the Topology of Citation Networks
#214	Kyle Higham, Michele Governale, Ulrich Zuelicke and Adam Jaffe	Empirically determined intrinsic node fitness in patent citation networks
#577	Ricardo Sevilla-Escoboza, V. P. Vera-Ávila, J. L Echenausía-Monroy and Javier M. Buldú	Dynamical competition between Complex Networks.
#262	Liang Liu, Bo Qu, Bin Chen, Alan Hanjalic and Huijuan Wang	Modeling of Information Diffusion on Social Networks with Applications to WeChat
#292	Marcin Waniek and Aamena Alshamsi	Mitigating strategic network attack diffusion in security games
#422	Hana Khamfroush	On the impact of initial spreaders on phenomena propagation in multi-layer interdependent networks
#469	Samuel Unicomb, Gerardo Iniguez, Janos Kertesz, Diana Knipl and Marton Karsai	Threshold driven contagion on multiplex networks
#471	Felipe Montes, Ana Maria Jaramillo, José David Meisel, Albert Diaz-Guilera, Juan Alejandro Valdivia and Roberto Zarama	A benchmark of centralized and decentralized strategies for identifying influential seed nodes for spreading process in social networks
#487	Philipp Lorenz, Jonas Braun and Philipp Hoevel	The complex contagion of likes
#495	Ivan Kryven	On weak connectivity and percolation of random multiplex networks with arbitrary degree distributions
#507	Rashad Eletreby, Yong Zhuang and Osman Yagan	Evolution of Spreading Processes on Complex Networks
#512	Jaroslaw Jankowski, Boleslaw Szymanski, Przemysław Kazienko, Radosław Michalski and Piotr Bródka	Sequential Seeding for Exploring Boundaries of Current Limits on Information Spreading Coverage
#517	Anna Keuchenius, Justus Uitermark and Petter Tornberg	A Community Perspective on Diffusion: The Case of Granovetter's Weak Ties Hypothesis
#10	Thomas Chesney	Balance and Status: evidence and implications
#9	Vladimir Marbukh	Towards Resilient yet Economically Viable Networked Infrastructures
#50	Amanah Ramadiah, Fabio Caccioli and Daniel Fricke	Reconstructing and Stress Testing Credit Networks
#206	Veronika Stolbova, Irene Monasterolo and Stefano Battiston	Financial networks approach to climate policy evaluation
#237	Marie-Cécile Dupas, Petros Chatzimpiros and José Halloy	Entangled structures of the world cereal trade network
#476	Yerali Gandica, Marco Valerio Geraci, Sophie Béreau and Jean-Yves Gnabo	Financial institutions vulnerability: assessing the role of intra and inter-community dependences
#41	Yi Ming Lai, Ruediger Thul and Stephen Coombes	Stability Analysis of Doubly Discontinuous Networks
#163	Ye Deng, Jun Wu and Yuejin Tan	Optimal disintegration strategy in spatial networks based on heuristic algorithm
#267	Fabian Ying, Mason Porter, Sam Howison and Mariano Beguerisse Diaz	Minimizing congestion in supermarkets
#342	Dong Zhou and Ahmed Elmokashfi	Network recovery based on system crash early warning in a cascading failure model
#414	Omur Ozel, Bruno Sinopoli and Osman Yagan	Robustness of flow networks against cascading failures under partial load redistribution
#477	Xueming Liu, Enrico Maiorino, Arda Halu, Jianxi Gao and Amitabh Sharma	A novel robustness measure provides important structural information about essential and disease genes in multilayer biological networks
#25	Luis Galindo	Networks of Invention: How a collaborative online system could improve inventiveness in the design process of digital learning artefacts
#46	Adam Badawy, Emilio Ferrara and Kristina Lerman	Analyzing the Digital Traces of Political Manipulation: The 2016 Russian Interference Twitter Campaign
#64	Marco De Nadai, Yanyan Xu, Emmanuel Letouzé, Marta Gonzalez and Bruno Lepri	Quantifying the relation between urban environment, socio-economic conditions, mobility and crime in multiple cities
#67	Yukie Sano, Zhao Zilong, Jichang Zhao, Orr Levy, Hideki Takayasu, Misako Takayasu, Daqing Li and Shlomo Havlin	Structural difference between fake and real news propagation networks
#116	Hsie-Te Kao, Homa Hosseinmardi and Emilio Ferrara	Behavioral Synchronicity in Human Dynamics from Sensor Data
#117	Homa Hosseinmardi, Hsien-Te Kao, Kristina Lerman and Emilio Ferrara	Discovering Hidden Structure in High Dimensional Human Behavioral Data via Tensor Factorization
#211	Luiz G. A. Alves, Haroldo Ribeiro, Alvaro F. Martins, Ervin Lenzi and Matjaž Perc	The dynamical structure of political corruption networks

#218	Takuma Narizuka and Yoshihiro Yamazaki	Characterization of the formation structure in team sports by using Delaunay triangulation
#223	Dion O'Neale, Caleb Gemmell, Thegn Ladefoged and Alex Jorgensen	Constructing social networks from obsidian artefacts in pre-European Aotearoa/New Zealand
#319	Milan Janosov, Federico Battiston and Roberta Sinatra	Quantifying and comparing success in artistic careers
#526	Xindi Wang, Onur Varol and Tina Eliassi-Rad	Learning to Place Objects Using Networks
#372	Florian Klimm and Benjamin F. Maier	A Network Science Summer Course for High School Students
#561	Vincent Thibeault, Jean-Gabriel Young, Guillaume St-Onge and Patrick Desrosiers	Critical couplings of synchronization dynamics on the stochastic block model
#61	Pau Vilimelis Aceituno	Eigenvalue distributions for cyclic networks
#131	Su Do Yi, Jaegon Um and Byungnam Kahng	Partially synchronized state of identical oscillators mediated by the phase lag
#132	Matthew Garrod and Nick Jones	How Informative are Node Coordinates in Geometric Networks?
#153	Ignacio Echegoyen, Victor Vera, Johann H. Martínez, Ricardo Sevilla Escoboza and Javier M. Buldu	Ordinal Synchronization: A new method to quantify coordination in dynamical systems
#154	Chittaranjan Hens, Uzi Harush, Baruch Barzel and Reuven Cohen	Predicting the patterns of spatio-temporal signal propagation in complex networks
#162	Linyuan Lu	The DHC Theorem on Networks and Its Applications
#187	Baruch Barzel	The spatio-temporal propagation of signals in complex networks
#220	Pim van der Hoorn, Dmitri Krioukov and Gabor Lippner	Ensemble of maximally unbiased sparse graphs with given scale-free degree distribution
#234	Kwang-Jong Choi, Deokjae Lee and Byungnam Kahng	How does critical behavior emerge in a discontinuous percolation transition through cluster merging dynamics?
#239	Antoine Allard and Laurent Hébert-Dufresne	Effective structure of complex networks and a second look at message passing approaches
#299	Prosenjit Kundu, Pitambar Khanra, Chittaranjan Hens and Pinaki Pal	Transition to synchrony in degree-frequency correlated Sakaguchi-Kuramoto model
#323	Federica Parisi, Guido Caldarelli and Tiziano Squartini	Entropy-based approach to missing-links imputation
#348	Markus Brede, Massimo Stella and Alexander Kalloniatis	Competitive influence maximization and enhancement of synchronization in populations of non-identical Kuramoto oscillators
#393	Giona Casiraghi	Multiplex Network Regression: a Statistical Framework for Multidimensional Data Analysis
#361	Giona Casiraghi, Vahan Nanumyan and Frank Schweitzer	Inferring Significant Links using Generalized Hypergeometric Ensembles
#530	Joanna Toruniewska, Krzysztof Kułakowski, Krzysztof Suchecki and Janusz Holyst	New constant of motion for coevolving voter model
#502	Miguel Ponce de Leon, Alfonso Valencia and Vera Pancaldi	Navigating complex genotype spaces of cancer signaling models to investigate drug resistance mechanisms

Thursday June 14
Evening session

Poster session 2

#317	Tjasa Kumelj, Snorre Sulheim, Alexander Wentzel and Eivind Almaas	Gene co-expression networks of metabolite switch in Streptomyces coelicolor to produce antibiotics
#392	Jacob Davidson, Vivek Sridhar, Matt Grobis and Iain Couzin	Visual networks and collective animal motion
#425	Jamie Soul, Sara Dunn, Sanjay Anand, Ferdinand Serracino-Inglott, Jean-Marc Schwartz, Ray Boot-Handford and Tim Hardingham	Network-based analysis of osteoarthritis
#490	Demian Battaglia, Wesley Clawson, Ana-Maria Fernandez Vicente, Christophe Bernard and Pascale Quilichini	Switching states of network connectivity in rat recordings during anaesthesia and sleep
#553	Tony Larkin and Richard Harris	The contribution of node variability to community assignment in chronic pain functional brain networks
#378	Yuliia Orlova, Ivan Kryven and Piet Iedema	Auto-generated reaction networks for Complex Polymerization Processes
#455	Aline Viol, Fernanda Palhano-Fontes, Heloisa Onias, Gandhimohan M. Viswanathan, Philipp Hövel and Draulio B. de Araujo	The effects of the psychedelic brew Ayahuasca on human functional brain networks
#485	Jakub Vohryzek, Alessandra Griffa, Katharina Glomb and Patric Hagmann	Decoding the brain: a spatio-temporal connectome approach
#492	Zikai Lin, Maria Kudela, Brandon Oberlin, Joaquin Goni, David Kareken, Jaroslaw Harezlak and Mario Dzemidzic	Network Analysis of the fMRI-derived Dynamic Functional Connectivity during Gustatory Task with Lagged Dependence
#496	Tommaso Gili, Andrea Gabrielli, Fabrizio Piras, Gianfranco Spalletta, Guido Caldarelli and Rossana Mastrandrea	Functional brain networks in schizophrenia: when abundance hinders functioning
#539	Jeremy Guillon, Valentina La Corte, Michel Thiebaut de Shotten, Bruno Dubois, Oliver Colliot and Fabrizio De Vico Fallani	Multilayer analysis of structural and functional brain networks in Alzheimer's disease
#566	Filip Miscevic and Olaf Sporns	Navigability of structural brain networks in hyperbolic space
#591	Ilaria Sani, Brent McPherson, Heiko Stemmann, Winrich Freiwald and Franco Pestilli	A dorso-ventral network involved in attentional control in the posterior primate brain
#594	George Panagopoulos	Network Inference from Neural Activation Time Series: A comparative review
#483	Diego Lombardo, Cathérine Casse-Perrot, Olivier Blin, Mira Didic and Demian Battaglia	Temporal networks of resting state functional connectivity are modified by sleep deprivation and correlate with cognitive performance
#17	Chao Yan, Hui-Min Cheng, Yi-Zi Ning, Xin Liu and Zhong-Yuan Zhang	Joint Nonnegative Matrix Factorization for Community Structures Detection in Signed Networks
#157	Koji Oishi, Takamitsu Watanabe and Naoki Masuda	Overlapping communities in correlation matrices
#225	Stanislav Sobolevsky, Alexander Belyi and Carlo Ratti	Optimality Of Community Structure In Complex Networks
#227	Roxana Pamfil, Sam Howison and Mason Porter	Principled parameter selection for modularity maximisation in multilayer networks
#291	Jérôme Kunegis, Pawan Kumar, Jun Sun and Giuseppe Pirrò	SynGraphy: Succinct Summarisation of Large Networks via Small Synthetic Representative Graphs
#359	Christian Bongiorno, Lorenzo Zino and Alessandro Rizzo	On Community Detection in Activity-Driven Networks
#472	William Weir, Scott Emmons, Ryan Gibson, Dane Taylor and Peter Mucha	CHAMP: Post-Processing Partitions for Modularity Optimization
#498	Tzu-Chi Yen	Active Learning for Clustering of Sparse Networks and Phase Transition
#536	Michael Mackay, Roger Whittaker and Marcus Kaiser	Emergence of functional modules in sparse networks is dependent on network topology, and show chimera-like transitions due to interactions between modules
#527	Dean Eckles, Elchanan Mossel and Amin Rahimian	The strength or weakness of long ties in simple and complex social contagion
#558	Joan T. Matamalas, Alex Arenas and Sergio Gómez	Epidemic extinction driven by link conductance
#576	Michele Starnini, Wesley Cota, Silvio Ferreira and Romualdo Pastor-Satorras	Polarization and information spreading in political communication networks
#586	Sang-Hwan Gwak, Eun-Kyu Park and Kwang-Il Goh	No-exclaves percolation on networks
#57	Luca Maria Aiello and Nicola Barbieri	Evolution of Ego-networks in Social Media with Link Recommendations
#404	Zahra Sheikhbahaee, Arnim Bleier and Fariba Karimi	Link and node attribute predictions in homophilic networks
#103	Carlos Sarraute, Juan de Monasterio, Martin Minnoni and Matias Travizano	Using Machine Learning to Explore Migration and the Spread of Chagas Disease in Latin America
#129	Emanuele Del Fava, Marco Bonetti, Carlo Devillanova and Alessia Melegaro	Immigrants' social network and the transmission of health-related behaviours and outcomes (NetHealth): results from a pilot study on international students in Milan
#343	Petter Holme and Liubov Tupikina	Computational network epidemiology without random numbers
#275	Christian Bongiorno, Alessandro Rizzo and Maurizio Porfiri	Transfer entropy reveals strong ties in temporal social networks
#377	Matteo Zignani, Christian Quadri, Michela Del Vicario, Sabrina Gaito and Gian Paolo Rossi	Communication patterns in temporal networks of cohesive groups
#441	Marcin Kulisiewicz, Przemysław Kazienko, Bolesław K. Szymański and Radosław Michalski	Phenomena of Entropy in Temporal Network
#501	Janos Török and Janos Kertesz	Churning behavior in collapsing online social networks: Competitors, communities and cascades
#544	Jonathan Bourne	Analysing Assumptions used in simulating power-grid cascading failures NetSci Abstract
#551	Luc Berthouze	Impact of higher-order network structure on critical behaviour in complex systems
#578	Gareth Baxter, Gábor Timár and Jose Fernando Mendes	Targetted Damage to Interdependent Networks
#202	Ashok Deb, Kristina Lerman and Emilio Ferrara	On Predictability of Cyber Events by Leveraging Hacker Sentiment
#327	Marcin Waniek, Tomasz Michalak, Michael Wooldridge and Talal Rahwan	Hiding individuals and communities in a social network
#246	Ruiqi Li, Lei Dong, Jiang Zhang, Wenxu Wang, Zengru Di and Gene Stanley	Simple spatial scaling rules behind complex cities
#254	Takanori Nishida, Yoshiki Ishikawa, Hirotake Ito and Lav Varshney	Weak ties in job change: Evidence from business card exchange in Japan
#358	Yuan Yuan, Tracy Liu, Chenhao Tan and Jie Tang	Online Red Packets: A Large-scale Empirical Study of Gift Giving on WeChat
#397	Jacob Levy, Eric Fleury and Márton Karsai	Prediction of socioeconomic status in Twitter via network and language
#430	Eugenio Valdano, Michele Re Fiorentin and Alberto Antonioni	The apostolic succession of the Roman Catholic Church: a network analysis
#451	Amir Ebrahimi Fard and Scott Cunningham	Evolution of rumour studies, which discipline most likely to be sitting atop the iron throne?
#458	Eduardo Graells-Garrido, Diego Caro and Rossano Schifanella	The Social Life of Daily Commuting
#499	Dorota Celińska	Collective intelligence in Open Source teams: insights from social network analysis of GitHub
#285	Fredrik Erlandsson, Piotr Bródka, Martin Boldt and Henric Johnson	Do We Really Need To Catch Them All? A New User-guided Social Media Crawling Method

#382	Matteo Zignani, Sabrina Gaito, Chantal Cherifi and Gian Paolo Rossi	The structure of a decentralized online social network: Mastodon
#158	Cynthia Siew	Simulating the accumulation of partial activation in the phonological language network
#575	Edgar Blancas Baeza, Candelario Hernández Gómez, Bibiana Obregón Quintana and Lev Guzman-Vargas	A study of recurrence networks in natural languaje
#396	Carolina Becatti, Guido Caldarelli and Fabio Saracco	Entropy-based randomization of rating networks
#406	Laszlo Gadar and Janos Abonyi	Application of multilayer networks in organization mining
#419	Juan Antonio Almendral Sanchez, Vanesa Avalos Gaytán, I. Leyva and Stefano Boccaletti	Emergent explosive synchronization in adaptive complex networks
#429	Andrea Santoro and Vincenzo Nicosia	Spectral embedding of multiplex networks
#440	Balint Tillman and Athina Markopoulou	On the Number of Connected Components of Joint Degree Matrix Realizations
#450	Leonardo Gutiérrez Gómez, Benjamin Chiêm and Jean-Charles Delvenne	Generalized Assortativities for Network Classification
#457	Paula Tuzón, Juan Fernandez-Gracia and Victor M Eguiluz	From continuous to discontinuous transitions in social diffusion
#506	Fernando Santos	The Euler characteristic and topological phase transitions in networks
#521	Christophe Letellier, Irene Sendina-Nadal and Murilo Baptista	A symbolic nonlinear theory for network observability
#547	Shuang Gao and Peter Caines	A Control and Regulation Methodology for Large Scale Networks of Dynamical Systems via Graphon Limits
#550	Fernando Rosas, Pedro A.M. Mediano and Henrik J. Jensen	Representing Multivariate Interdependence as Weighted Hypergraphs
#555	Irene Sendiña-Nadal, Luis Aguirre and Christophe Letellier	Nonlinear graph-based assesment of network observability
#56	Christian Lyngby Vestergaard, Laetitia Gauvin, Mathieu Génois, Márton Karsai, Mikko Kivelä, Taro Takaguchi and Eugenio Valdano	Randomized reference models for temporal networks
#74	Arnaud Messé, Marc-Thorsten Hütt and Claus Hilgetag	A predictive framework of co-activation patterns of excitable networks
#86	Gemma Rosell-Tarragó, Emanuele Cozzo and Albert Díaz-Guilera	A complex network framework to model cognition: unveiling correlation structures from connectivity
#322	Eduardo Vicensi De Bastiani and Karen Fiuza	Network-based model for housing market appraisals
#339	Ariel Duarte-López and Marta Pérez-Casany	Power law extensions suitable to model the degree distribution of real networks
#452	Shi Zhou and Haoruo Liu	The Generic Preference (GP)Model To Generate Both Assortative and Disassortative Networks
#488	Nicolo Pagan	Social network formation: from individual incentives to systemic stability
#494	Ingo Scholtes	When networks are not enough: Learning optimal higher-order models of complex systems

Friday June 15
Posters displayed during the social events

Poster list

#5	Mahmoud Hassan and Fabrice Wendling	Brain disorders: A network perspective from dense Electroencephalography
#28	Maxime Lenormand and Olivier Argagnon	Biogeographical network analysis of plant species distribution in the Mediterranean region
#33	Sadamori Kojaku and Naoki Masuda	A generalised significance test for individual communities in networks
#44	Yuka Fujiki, Taro Takaguchi and Kousuke Yakubo	A general framework for analyzing long-range degree correlations in complex networks
#47	Dafne van Kuppevelt	Answering legal research questions with network analysis
#59	Adam Badawy and Emilio Ferrara	The Rise of Jihadist Propaganda on Social Networks
#68	Shogo Mizutaka	Fractal networks formed by self-organized critical dynamics and its universality class
#78	Mattia Mazzoli and Angel Sanchez	Equilibria, information and frustration in heterogeneous network games with conflicting preferences
#81	Regino Criado, Miguel Romance and Ángel Pérez	On Edge's PageRank: An application for analyzing human mobility in subway networks
#91	Esther Ibáñez and Paolo Moretti	A homology based approach to robustness of biological networks
#105	Rafael Prieto Curiel	Mathematical modelling of the fear of crime
#324	George Garas, Isabella Cingolani, Pietro Panzarasa, Ara Darzi and Thanos Athanasiou	Network analysis of surgical innovation: Measuring value and the virality of diffusion in robotic surgery
#126	Mengqiao Xu and Haoxiang Xia	Architecture of the global container shipping network: a crucial structural core
#133	Igor Kanovsky	Native Communities Detection in Social Networks
#141	Xiaoke Xu and Wenkuo Cui	Constructing Null Networks For Community Detection in Complex Networks
#144	Anna Sapienza, Yilei Zeng, Alessando Bessi, Kristina Lerman and Emilio Ferrara	Individual Performance in Team-based Online Games
#155	Wenyuan Liu, Tobias Kuhn, Olivia Woolley Meza and Siew Ann Cheong	Progression of Knowledge in Physics Research: The Coevolution between Topical Clusters (TCs) and Scientific Memes
#156	Mikolaj Morzy, Tomasz Kajdanowicz, Przemysław Kazienko and Grzegorz Miebs	Priority Attachment: a Universal Mechanism for Generating Networks
#166	Tatsuro Kawamoto and Yoshiyuki Kabashima	Assessment of the number of clusters in community detection using the alluvial diagram
#170	Alexandre Bovet and Hernan Makse	Influence of fake and traditional news outlets on Twitter opinion dynamics
#182	Gail Gilboa Freedman and Tomer Tuchner	On False Positive Signals and Their Impact on Rumor Reliability in Social Networks
#196	Anna Sapienza, Sindhu Kiranmai Ernala, Alessando Bessi, Kristina Lerman and Emilio Ferrara	DISCOVER: Mining Online Chatter for Emerging Cyber Threats
#198	Anna Sapienza, Alessando Bessi and Emilio Ferrara	Modeling User Behavior in Online Games
#203	Miron Kaufman, H. T. Diep and Sanda Kaufman	Limit cycles in multiplex conflicts
#208	Sixing Chen and Jukka-Pekka Onnela	Resampling Methods for Single Observed Network
#221	Aniruddha Banerjee, Vijay Lulla and Jeffrey Wilson	Hospital Architecture and Infection Modeling: A Network Approach
#226	Qingpeng Zhang, Lu Zhong, Siyang Gao and Xiaoming Li	Optimizing HIV Interventions for Multiplex Social Networks via Partition-based Random Search
#240	Demival Vasques Filho and Dion O'Neale	Latent space generative models for bipartite networks
#242	Giacomo Vaccario, Matus Medo, Nicolas Wider and Manuel Sebastian Mariani	Ranking bias in networks: detection and suppression
#252	Huijuan Wang, Cunquan Qu, Chongze Jiao and Wioletta Ruszel	Self-Avoiding Pruning Random Walk on Signed Network
#268	Lu Zhong, Qingpeng Zhang and Dong Yang	Game-Theoretic Modeling of Multiplex Social Networks
#272	Seungkyu Shin and Juyong Park	Observing the Evolutionary Dynamics of a Movie Network based on Tag Genome
#293	Barbara Mahler, Mason Porter and Ulrike Tillmann	Analysis of contagion maps on a class of networks that are spatially embedded in a torus
#305	Emanuele Raineri, Alfonso Valencia and Vera Pancaldi	Exploring local and multiscale assortativity of chromatin interaction networks
#321	Timothy Podkul, Preeti Gupta and Karen Hammerness	Social Networks as Critical Features for Sustained Science Engagement of Youth
#332	Panos Argyrakis, Michael Maragakis and Konstantinos Angelou	Thematic and geographical analysis of a Patent Citation Network
#357	Jelena Grujic and Tom Lenaerts	Prisoner's Dilemma on a network - What drives the update mechanism?
#367	Snorre Sulheim, Kristin Degnes, Giang-Son Nguyen, Alexander Wentzel and Eivind Almaas	A network approach to efficient drug discovery
#379	Pål Røynestad and Eivind Almaas	Active Site Network
#391	Livio Bioglio, Sara Capecchi, Federico Peiretti, Dennis Sayed, Antonella Torasso and Ruggero G. Pensa	Social4School: a Serious Game for Educating Children on Privacy Awareness in Online Social Networks
#405	Ana Lucia Rodriguez, Felipe Montes, Olga Lucia Sarmiento, Yanet Ruvalcaba, Ana Maria Jaramillo, Loreen Magariño and Purnima Madhivanan	Applications of Network Meta-Analysis in Health Sciences: A Systematic Review and characterization of published studies
#410	Pal Molnar, Henriett Pinter and Edit Toth	(Dis)connectivity of Hungarian educational researchers represented in leading national Educational journals between 1991 and 2016
#411	Camellia Sarkar and Sarika Jalan	How celebrities connect: A multilayer network analysis
#416	Sunitha V and Vandana Ravindran	An efficient algorithm for identification and classification of control nodes in complex networks
#438	Ana Lucia Rodriguez, Ana Maria Jaramillo, Dionne P. Stephens and Felipe Montes	Black PhD Students' social & academic networks and their influence on attrition, adjustment and achievement emotions
#444	Thilo Gross and Edmund Barter	Exploring Cities with Diffusion Maps
#461	Bowen Fu and Leonardo Duenas-Osorio	The topological basis of the reliability of power transmission grids
#464	Didem Gundogdu, Pietro Panzarasa, Nuria Oliver and Bruno Lepri	The value generated through connections: Evidence from a developing country
#478	Yifan Qian, Paul Expert, Pietro Panzarasa and Mauricio Barahona	Geometric deep learning and node classication: An application of Graph Convolutional Networks to citation networks
#482	Nikolay Martyushenko, Siri Haftun Overn and Eivind Almaas	Using simulated annealing to generate random metabolic networks
#508	Rachit Agarwal, Nikolaos Georgantas and Valerie Issarny	Impact of Spatial Scale on Mobility Parameters

#532	Daniel Citron, Héctor Sánchez C., Sean Wu, Biyonka Liang and David Smith	Network Analysis of Mosquito Habitats for Controlling Vector-Borne Pathogens
#540	Maksim Tsvetovat, Sofia Dokuka and Alex Furman	How productive teams co-evolve technical skills and teamwork
#541	Alba Bernini, Luca Bolzoni and Renato Casagrandi	When details do matter: detecting superspreader farms in livestock diseases
#556	Shuang Gao and Peter Caines	Consensus-induced Centrality Measure on Multi-agent Networks
#568	Jesus Espinal-Enriquez, Sergio Antonio Alcala-Corona, Guillermo de Anda-Jáuregui and Enrique Hernandez-Lemus	Loss of trans regulation in breast cancer molecular subtypes
#570	Sergio Antonio Alcala-Corona, Jesus Espinal-Enriquez, Guillermo de Anda-Jáuregui and Enrique Hernandez-Lemus	Submodularity in transcriptional network and viral response in Her2 breast cancer subtype.
#571	Satyam Mukherjee and Sabine Brunswicker	Functional Coordination in Developer's Network in Open Source Software
#579	Guillermo de Anda Jáuregui, Jesús Espinal Enriquez, Sergio Antonio Alcalá Corona and Enrique Hernández Lemus	Multiplex network analysis of methylation and co-expression of Breast Cancer
#597	Fredrik Erlandsson, Piotr Bródka and Anton Borg	Seed selection for information cascade in multilayer network
#16	Chantal Cherifi and Hocine Cherifi	Evaluating Community Detection Algorithms: A multidimensional issue