

GARDEN ROOM	
COMMUNITY STRUCTURE	
CHAIR: AARON CLAUSET	
1:30	Leveraging Community Structure to Predict Successful Memes Lilian Weng
1:50	Do Community Detection Methods Find Real Clusters? Darko Hric
2:10	Structural Preferential Attachment of Community Structure and Its Relation to Dunbar's Number Jean-Gabriel Young
2:30	10-MINUTE BREAK
2:40	Community Structure and Social Contagion Young-Yeol Ahn
3:00	The Map Equation and the Resolution Limit in Community Detection Tatsuro Kawamoto
3:20	30-MINUTE BREAK
THEORY I	
CHAIR: PIERRE--ANDRE NOEL	
3:50	Revealing the Hidden Language of Complex Networks Omer Yaveroglu
4:10	Subgraph Frequencies: Mapping the Empirical and Extremal Geography of Large Graph Collections Johan Ugander
4:30	Think Globally, Act Locally: From Network Motifs to Graph Spectra Victor Preciado
4:50	10-MINUTE BREAK
5:00	Self-Healing Networks: Redundancy and Structure Guido Calderelli
5:20	Fluctuations of Motifs in Complex Networks: A Self-Non-Self-Averaging Phase Transition Scenario Massimo Ostilli

KRUTCH	
PHASE TRANSITIONS	
CHAIR: BOB ZIFF	
	News and Views in the Emergence of Large-Scale Connectedness and the Prediction of Tipping Points Jan Nagler
	Structural Properties of Complex Networks Jose Mendes
	Necessary Condition for Non-Trivial Discontinuous Percolation Transitions Byungnam Kahng
	10-MINUTE BREAK
	Noise Induces Explosive Synchronization Per S. Skardal
	Double Percolation Phase Transition in Clustered Complex Networks Pol Colomer
	30-MINUTE BREAK
MULTIPLEX I	
CHAIR: GINESTRA BIANCONI	
	Driving Interconnected Networks to Supercriticality Filippo Radicchi
	Dynamics on Modular Networks with Heterogeneous Correlations Sergey Melnik
	Quantifying Correlated Edge Dynamics in Co-Evolving Multiplex Networks Vikram Vijayaraghavan
	10-MINUTE BREAK
	Layered Percolation Saikut Guha
	Multiple Resource Demands and Viability in Multiplex Networks Byunghoon Min

EDR	
SOCIAL GROUPS	
CHAIR: PRITWISH BASU	
1:30	Analyzing Expert Behaviors in Collaborative Networks Huan Sun
1:50	Predicting Group Decisions from Communication Structure Daniel Romero
2:10	Do Ideas, Products, Messages, and Behaviors Really Spread Just Like Viruses? Julia Ponce-Casasnovas
2:30	10-MINUTE BREAK
2:40	Synergistic and Redundant Strategy Extraction from Time Series Data Chris Ellison
3:00	Degree Correlations in Signed Social Networks Valerio Ciotti
3:20	30-MINUTE BREAK
OSNs	
CHAIR: MARTA GONZALEZ	
3:50	Extracting Tag Hierarchies Gergely Palla
4:10	The Geography of Friendship: Classifying Social Ties by Spatial Similarity Jameson Toole
4:30	Design and Analysis of Experiments in Networks Brian Karrer
4:50	10-MINUTE BREAK
5:00	Modeling and Predicting the Growth and Death of Websites Bruno Ribeiro
5:20	Co-evolutionary Dynamics in Social Networks: A Case Study of Twitter Constantine Dovrolis

ROOM 102	
BIOLOGY & ECOLOGY	
CHAIR: JAVIER GALEANO PRIETO	
	Tissue Specificity of Human Disease Maksim Kitsak
	Brain Networks Reveal the Effects of Antipsychotic Drugs on Schizophrenia Patients and Controls Emma Towilson
	Biconnectivity of Cellular Metabolism Deok-Sun Lee
	10-MINUTE BREAK
	Adaptive Foraging Stabilizes Pollination Networks via Apparent Altruism Fernanda Valdivinos
	The Importance of a Meso-Scale Approach to Quantifying Ecological Network Structure Nick Baker
	30-MINUTE BREAK
EPIDEMICS	
CHAIR: SHWETA BANSAL	
	Bayesian Inference of Epidemics on Networks via Belief Propagation Alfredo Braunstein
	Persistence of Rapidly Mutating Pathogens on a Metapopulation Network Chiara Poletto
	Network Models for Population-Wide Disease Forecasts Peter Klimek
	10-MINUTE BREAK
	Selective Latent Factor Analysis for Epidemic Spreading in Time-Varying Networks Laetitia Gauvin
	Efficient Detection of Contagious Outbreaks in Massive Metropolitan Encounter Networks Lijun Sun



GARDEN ROOM		KRUTCH		EDR		ROOM 102	
MOBILITY		THEORY II		EMPIRICAL		FINANCE	
CHAIR: L. DUENAS--OSORIO		CHAIR: MAKSIM KITSACK		CHAIR: CATERINA SCOGLIO		CHAIR: GUIDO CALDARELLI	
1:30	On the Role of Spatial Dynamics and Topology on Network Flows Marta Gonzalez	1:30	Detecting Change Points in the Large-Scale Structure of Evolving Networks Leto Peel	1:30	Citation Graph Analysis to Identify Memes in Scientific Literature Tobias Kuhn	1:30	Interdependencies and Causality in Coupled Financial Networks Irena Vodenska
1:50	Systemic Delay Propagation in the US Airport Network Jose Ramasco	1:50	Slow, Bursty Dynamics on Complex Networks Geza Odor	1:50	Focus Shifting Patterns in Software Dependency Networks Qi Xuan	1:50	Challenges in Modeling Systemic Risk in Financial Networks Charles Brummitt
2:10	A Generative model of an Urban Social Network Rory McGrath	2:10	Modeling Time-Varying Networks with Memory Enrico Ubaldi	2:10	Success in Tennis: Performance and Recognition Burcu Yucesoy	2:10	Evolution of the Transaction Network and the Wealth Distribution in Bitcoin Daniel Kondor
2:30	10-MINUTE BREAK	2:30	10-MINUTE BREAK	2:30	10-MINUTE BREAK	2:30	10-MINUTE BREAK
2:40	Investigating Transportation Network Resilience to Extreme Events Amirhassan Kermanshah	2:40	Feedback Between Node and Network Dynamics Can Produce Real World Network Properties Hilla Brot	2:40	Shadow Networks: Discovering Hidden Nodes with Models of Information Flow James Bagrow	2:40	MLR Fit-Network of Global Balance Payments Andreas Joseph
3:00	A Comparative Study of Congestion in Spatial Networks Serdar Colak	3:00	Fractional Calculus Approach to Constructing Equations of Motion for Nodes Interacting within a Complex Network Malgorzata Tutalska	3:00	Wisdom of the Network Erez Shmueli	3:00	Elimination of Systemic Risk in financial Networks by Means of a Systemic Risk Transaction Tax Sebastian Poledna
3:20	30-MINUTE BREAK	3:20	30-MINUTE BREAK	3:20	30-MINUTE BREAK	3:20	30-MINUTE BREAK
THEORY III		MULTIPLEX II		SOCIAL / POLITICAL		SPREADING PROCESSES	
3:50	CHAIR: YANG--YU LIU Versatile Nodes in Complex Interconnected Networks Albert Sole	3:50	CHAIR: IAN DOBSON Robustness of Network of Networks Ginestra Bianconi	3:50	CHAIR: IRENA VODENSKA Networks of Military Alliances, Wars, and International Trade Stephen Nei	3:50	CHAIR: ANTONIO SCALLA Complex Contagion on Noisy Geometric Networks Dane Taylor
4:10	Probabilistic Centrality Measures and their Statistical Comparison Abigail Jacobs	4:10	Percolation in Multiplex Networks with Overlap Davide Cellai	4:10	The Effects of Shocks on International Networks: Changes in the Attributes of States and the Structure of International Trade Alliance Networks Zeev Maoz	4:10	Phase Transitions in Cooperative Coinfections: Simulation Results for Networks and Lattices Fakhteh Ghanbarnejad
4:30	Weighting the Weights: K-Shell Decomposition and Applications to Weighted Economic Networks Antonios Garas	4:30	Activation and Pruning on Multiplex Networks Gareth Baxter	4:30	Competing Effects of Social Balance and Influence Pramesh Singh	4:30	Cascades in the Threshold Model with Multiple Initiators and Heterogeneous Threshold Values in Social Networks P. Karampourniostis
4:50	10-MINUTE BREAK	4:50	10-MINUTE BREAK	4:50	10-MINUTE BREAK	4:50	10-MINUTE BREAK
5:00	Energy Distance on an Electric Power Grid Heetae Kim	5:00	Enhancing the Interdependent Network Design Problem by Applying Clustering Based Recursive Decomposition Andres Gonzalez	5:00	Positions, Strategies, and Electoral Performance: Analyzing Brazilian Party Switching Networks Hugo Barbosa Filho	5:00	Percolation Processes and Topological Properties of a Time-Integrated, Activity-Driven Network Michele Starnini
5:20	Epidemic Threshold in Directed Networks Huijuan Wang	5:20		5:20		5:20	Spread Optimization Problems by Message-Passing Algorithms Luca Dall'Asta