NERCCS 2018: Schedule of Contributed Talks

Each talk will be 15 minutes long, including Q&As and transitions.

Thursday April 12th

11:00am-12:15pm
Contributed Talks 1: Network Structure (Symposium Hall)
1. Humphrey Mensah and Sucheta Soundarajan: Sampling Community Structure in Dynamic Social Networks
2. Ricky Laishram and Sucheta Soundarajan: Evaluation of Community Similarity based on Hierarchical Distance
3. Ryan Hartman, Seyed Mohammad Mahdi Seyednezhad, Diego Pinheiro, Joseph Faustino and Ronaldo Menezes: Characteristics of Community Detection Techniques Across Thematic Twitter Emoji Networks
4. Michael Vaiana and Sarah Muldoon: The Interlayer Coupling Resolution Limit in Multilayer Networks
5. Lawrence De Geest: Enforcement Networks in Environmental Protection

11:00am-12:15pm
Contributed Talks 2: Nonlinear Dynamics (Tree House)
2. Rui Zhu and Hui Yang: Spatiotemporal Modeling of Nonlinear Dynamics in Cardiac Electrical Activities
3. Ruimin Chen, Farhad Imani and Hui Yang: Heterogeneous Recurrence Analysis of Vectorcardiogram Signals
5. Giridhar Nandikotkur: Investigating Inherent Timescales of Variability in Blazers Using Structure Functions

3:50pm-5:05pm
Contributed Talks 3: Data-Driven Approaches (Symposium Hall)
1. Mohammad A Al-Mamun and Shakib R Chowdhury: A Quantitative Image Analysis Method for Nuclei in Subcellular Microscopic Image
3. Jake Williams and Giovanni Santia: Is Space a Word, Too?
4. Kanika Bansal, Timothy Verstyuen, Jean Vettel and Sarah Muldoon: Emergence of Synchrony and Chimera in Data-Driven Models of Brain Dynamics
5. Johan Nakuci, Javier O. Garcia, Nick Wasylyshyn, James C. Elliot, Mathew Cieslak, Barry Giesbrecht, Scott T. Grafton, Jean M. Vettel and Sarah F. Muldoon: Inter-Session Reproducibility of Brain Functional Network Structure in Resting and Task States

3:50pm-5:05pm
Contributed Talks 4: Network Dynamics (Tree House)
1. Yanbing Mao, Emrah Akyol and Ziang Zhang: Strategic Topology Switching for Security of Multi-Agent Systems
2. Gang Yang, Jorge Zanudo and Reka Albert: Target Control in Logical Models Using the Domain of Influence of Nodes
4. Vítor V. Vasconcelos and Flávio L. Pinheiro: From Consensus to Polarization of Opinions in Complex Contagion
5. Alireza Fazli Khalaf and Yong Wang: A Possibilistic Programming Approach to Handle Dynamics of Global Supply Chain Network
Friday April 13th

11:00am-12:30pm
Contributed Talks 5: Social Networks (Symposium Hall)
1. Leila Hedayatifar, Foroogh Hassanibesheli and G. Reza Jafari: Stable and Unstable Frustrations in Aged Social Networks
2. Sarah Shugars: Complex Networks of Collaborative Reasoning
3. James Headrick, Jenny Liang and Emrah Akyol: On the Impact of Network Connectivity in Colonel Blotto Games
5. Dane Taylor: Centrality Analysis of Temporal and Multiplex Networks using Eigenvectors

11:00am-12:30pm
Contributed Talks 6: Self-Organization & Collective Behavior (Tree House)
1. P. Adrian Frazier: What Do ( Biological) Complex Systems Want?
2. Tianqi Chen, Gayatri Phadke, Jennifer Satterwhite-Warden, Dilip Kondepudi, James Dixon and James Rusling: Collective Self-Motion of Multiple Benzoquinone Particles at the Air-Water Interface
3. Maurici Felip and James Dixon: Moving from Individual to Collective Complex Coordination Dynamics: Theoretical and Methodological Challenges
4. Ashwin Vaidya and Bong Jae Chung: Self-Organization in Fluid-Solid Interacting Systems Far from Thermodynamic Equilibrium
6. Małgorzata Wisniewska, Nicole Dykstra Dykstra, Lisa O'Bryan, Simon Garnier, Andrew King, Guy Cowlishaw and Gareth Russell: Teasing Apart Environmental and Social Influences on the Movement of Individuals in Group Living Species – Proof of Concept

2:45-4:00pm
Contributed Talks 7: Social Dynamics (Symposium Hall)
1. Mark Sellers, Andreas Pape and Hiroki Sayama: Is Systems Thinking a Competitive Strategy?
2. Brennan Klein, Michael Cavanagh, Ginetta Salvalaggio, Kay Strong and Ange-Lionel Toba: Dynamics of the Opioid Crisis in the United States
3. Hugo Barbosa, Marcos Oliveira, Diogo Pacheco, Ronaldo Menezes and Gourab Ghoshal: The Influence of the Circadian and Ultradian Rhythms to Human Mobility: Empirical Evidences from Location-Based Check-Ins
4. Chandler Squires, Nikhi Kunapuli, Alfredo Morales and Yaneer Bar-Yam: Multi-Scale Patterns of Self-Identification
5. Mehmet Vurkac: Game-Theoretic Harmony in Musical Rhythm: Clave Alignment as an Emergent Social Convention for Coordination

2:45-4:00pm
Contributed Talks 8: Information (Tree House)
1. Ryan James, Bahti Zakirov, Blanca Daniela Masante and James Crutchfield: Modes of Information Flow
4. Brennan Klein and Erik Hoel: Quantifying the Causal Structure of Networks