CompleNet'18 Poster Titles

Poster Session A

Tuesday, March 6th, 6:00-8:00 pm

Fenway Center

A1. The laws of forgetting I: Temporal scales in human collective forgetting
Cristian Candia-Castro-Vallejos, Cristian Jara-Figueroa, Carlos Rodriguez-Sickert, Albert-László Barabási & Cesar Hidalgo

A2. The laws of forgetting II: How death and exogenous events shape our collective memory
Cristian Candia-Castro-Vallejos, Crstian Jara-Figueroa, Carlos Rodriguez-Sickert and Cesar Hidalgo

A3. Opinion model for distributed anomaly detection
Gonzalo Suárez, Lazaros Gallos and Shlomo Havlin

A4. The Structure of Cattle Trade Movements in Brazil
Denis Cardoso, David Elliott, Christiane Rocha, Josemar Faustino Da Cruz and Ronaldo Menezes

A5. Co-evolution of Cognition and Cooperation on (Social) Networks
Mohsen Mosleh and David Rand

~~A6. Long-Short Memory Process: Modeling Growth Dynamics of Microscopic Social Connectivity~~
~~*Chengxi Zang, Peng Cui, Christos Faloutsos and Wenwu Zhu*~~

A7. Are crisis platforms supporting citizen participation?
Gonzalo Bacigalupe and Javier Velasco

A8. Model Explorer - software for visual inspection of genome-scale metabolic models
Nikolay Martyushenko and Eivind Almaas

A9. A Network-Based Classification Framework for Predicting Treatment Response of Schizophrenia Patients
Farnaz Zamani Esfahlani, Katherine Visser, Gregory Strauss and Hiroki Sayama

A10. Assessing reliable human mobility patterns from higher order memory in mobile communications
Joan Matamalas, Manlio de Domenico and Alex Arenas

A11. Complex Networks Reveal a Glottochronological Classification of Natural Languages
Harith Hamoodat, Younis Al Rozz and Ronaldo Menezes

A12. Mapping the Higher Education System: The Applicants Perspective
Cristian Candia-Castro-Vallejos, Sara Encarnação, Carlos Rodriguez Sickert, César Hidalgo and Flavio Pinheiro

A13. Follow the money: defining node sequences on weighted and directed temporal networks
Carolina Mattsson

A14. Predicting perturbation patterns from the topology of biological networks
Marc Santolini and Albert-László Barabási

A15. Structural and Functional Redundancy in Biological Networks
Alice Schwarze, Mason A Porter and Jonny Wray

A16. Network of Bicycle Sharing System demands in Medellin: An alternative for urban sustainable mobility
Laura Lotero and Alejandro Builes-Jaramillo

~~A17. Model-assisted design of experiments in the presence of network-correlated outcomes~~
~~*Guillaume Basse and Edoardo Airoldi*~~

~~A18. Neural Detection of Socially Valued Community Members~~
~~*Sylvia A. Morelli, Yuan C. Leong, Ryan W. Carlson, Monica Kullar and Jamil Zaki*~~

A19. Recommendation in Call Detail Record Networks
Steven Mudda, Matteo Zignani, Sabrina Gaito, Silvia Giordano and Gian Paolo Rossi

A20. A Social Influence Model Based on Affiliation: A Case Study in a Multi-Party Political System

Josemar Faustino, Hugo Barbosa, Fernando Buarque de Lima-Neto, Eraldo Ribeiro and Ronaldo Menezes

A21. Dynamic Visualization of Citation Networks and Detection of Influential Node Addition
Takayasu Fushimi, Tetsuji Satoh and Noriko Kando

A22. Classical Music Clustering Based on Acoustic Features Using Networks
Xindi Wang and Syed Haque

~~A23. How can we use the complex networks to determine the ancient cultures?~~
~~*Jelena Grujic and Miljana Radivojevic*~~

A24. Using Collective Intelligence to Mitigate Motivated Reasoning in Climate Change Communications
Douglas Guilbeault, Joshua Becker and Damon Centola

~~A25. Temporal communication patterns within cohesive groups gathering in urban spaces~~
~~*Matteo Zignani, Christian Quadri, Michela Del Vicario, Sabrina Gaito and Gian Paolo Rossi*~~

A26. Author Attribution using Network Motifs
Younis Al Rozz and Ronaldo Menezes

~~A27. Social-Emotional Competence in Children Correlates with Centrality and Embeddedness in Classrooms~~
~~*M. Mowafak Allaham, Teresa Borowski, Sylvia Morelli and Clark McKown*~~

A28. Estimating peer influence effects under homphily: randomised treatments and insights
Niloy Biswas and Edoardo Airoldi

A29. Homophily explains perception biases in social networks
Eun Lee, Fariba Karimi, Hang-Hyun Jo, Markus Strohmaier and Claudia Wagner

A30. Speciation Results from Gene Regulatory Network Evolution
Chia-Hung Yang and Samuel Scarpino

A31. A trust based news spreading model
Alessandro Longheu, Vincenza Carchiolo, Giuseppe Mangioni, Michele Malgeri and Marialaura Previti

A32. Anomalous popularity growth in social tagging dynamics
Yasuhiro Hashimoto, Mizuki Oka and Takashi Ikegami

A33. Unveiling the Cultural Space of Brazil
Diego Pinheiro, Josemar Faustino, Diogo Pacheco, Marcos Oliveira, Ronaldo Menezes and Henilton Menezes

A34. Cultivating Tipping Points: Network Science in Teaching
Catherine Cramer, Ralucca Gera, Michaela Labriole, Hiroki Sayama, Lori Sheetz, Emma Towlson and Stephen Uzzo

A35. Emerging of inequality in financial transactions data
Marcella Tambuscio, Alfonso Semeraro, Silvia Ronchiadin and Giancarlo Ruffo

A36. Temporal social networks within Recreovía users: measuring cohesion emerging from a physical activity program in Bogota, Colombia
Ana Maria Jaramillo, Felipe Montes, Ana Paola Rios Cabra, Olga L. Sarmiento and Ruth Hunter

A37. Does classroom cooperation promote learning? Mapping classroom cooperation networks with games and its connection with academic performance
Victor Landaeta-Torres, Cristian Candia-Castro-Vallejos, Jorge Fábrega, Camilo Rodríguez-Beltrán, Jorge Varela, Carlos Rodriguez-Sickert and César Hidalgo

A38. Channel Alteration and Structural Efficiency in Human Communication Networks
Kyosuke Tanaka and Emok-Agnes Horvat

A39. Detecting seasonal migrations with mobile phone data
Samuel Martin-Gutierrez, Javier Borondo, Juan Carlos Losada, Alfredo Morales, Ana Maria Tarquis and Rosa M Benito

A40. Opening the relatedness box: comparing industry-specific, occupation-specific, and general human capital
Cristian Jara Figueroa, Edward Glaeser, Bogang Jun and César Hidalgo

A41. The Network of Negative Ties Between Good Bots
Taha Yasseri

A42. Epistemic Assortativity in Scientific Collaboration Networks
Ignacio Toledo and Jorge Fabrega

Poster Session B

Wednesday, March 7th, 12:30-2:30 pm
Curry Student Center Ballroom

B1. Outer synchronization for general weighted complex dynamical networks considering incomplete measurements of transmitted information
Xinwei Wang, Guo-Ping Jiang and Xu Wu

B2. SBM is discrete surface tension
Zachary Boyd

B3. Connectivity maintenance and community efficiency in networks.
Thais Uzun and Carlos Ribeiro

B4. The routes and clustering features of PM2.5 spillovers within the Jing-jin-ji cities under multi-timescales: Based on complex network methods
Huajiao Li, Haizhong An, Chao Li, Xueyong Liu and Yajie Qi

B5. Accessibility and delay in random spatiotemporal networks
Shahriar Etemadi Tajbakhsh and Justin Coon

~~B6. Temporal organization of avalanches in neuronal networks~~
~~*Fabrizio Lombardi, Hans Herrmann, Lucilla de Arcangelis and Dietmar Plenz*~~

~~B7. An R package for calculating the Weighted Topological Overlap Network with a visualization tool~~
~~*Deisy Morselli Gysi, Andre Voigt, Tiago Miranda Fragoso, Eivind Almaas and Katja Nowick*~~

B8. Mitigating Strategic Network Attack Diffusion in Security Games
Marcin Waniek and Aamena Alshamsi

B9. Cross-border Banking Crises: A Multilayer Network Perspective
Oscar Granados

B10. Preventive Defense of Cascade Failures in Complex Networks
Akito Igarashi and Shingo Kameyama

B11. Combinatorial Miller-Hagberg Algorithm for Randomization of Dense Networks
Hiroki Sayama

B12. Embedding-Centrality: generic centrality computation using neural networks
Rami Puzis, Zion Sofer, Dvir Cohen and Matan Hugi

B13. Discovering Patterns of Interest in IP Traffic Using Cliques in Bipartite Link Streams
Tiphaine Viard, Raphael Fournier-S'Niehotta, Matthieu Latapy and Clemence Magnien

B14. Network Dynamics of MicroRNA Co-Expression During Innate Immune System Responses
Benjamin King, Con Sullivan and Carol Kim

B15. Spin Model on Network for Macro-Prudential Analysis
Yuichi Ikeda, Yoshiyuki Arata and Hiroshi Yoshikawa

B16. Precipitation Networks in Tropical River Basins: Amazon and Congo
Alejandro Builes-Jaramillo and Laura Lotero

B17. Epidemic spreading in localized environments with recurrent mobility patterns
Clara Granell and Peter Mucha

B18. A Study of Cycle Length Distributions: Asymptotics, Applications, and Links to Homotopy Theory
Leonardo Torres and Tina Eliassi-Rad

B19. Density decompositions of networks
Glencora Borradaile, Theresa Migler-Vondollen and Gordon Wilfong

B20. Trade-offs between robustness and small-world effect in complex networks

Jun Wu, Ye Deng, Yue-Jin Tan and Zhiwei Yang

B21. Diffusive Phenomena in Dynamic Networks: a data-driven study
Letizia Milli, Giulio Rossetti, Dino Pedreschi and Fosca Giannotti

B22. Local Edge Perturbations as a Metric for Community Persistence
Brennan Klein and Stefan McCabe

B23. Balancing transaction surpluses in two-sided platforms by controlling network information transparency
Pouria Babvey and Babak Heydari

B24. Network Approach to Understanding Cascading Financial Crises
Irena Vodenska and Yohei Sakamoto

B25. Optimal knowledge diffusion strategies in the networks of related products and of related research areas
Aamena Alshamsi, Flavio L Pinheiro and Cesar Hidalgo

~~B26. The local efficiency of urban street networks~~
~~*Minjin Lee, Petter Holme and Lee Sungmin*~~

B27. Dynamic Scaling, Data-collapse and Self-Similarity in Mediation-Driven Attachment Networks
Liana Islam and Md Kamrul Hassan

B28. Fast Sequence Based Embedding with Diffusion Graphs
Benedek Rozemberczki and Rik Sarkar

B29. Fractal analyses of networks of integrate-and-fire stochastic spiking neurons
Ariadne A. Costa, Mary Jean Amon, Olaf Sporns and Luis H. Favela

B30. On the Eccentricity Function in Graphs
Hend Alrasheed

~~B31. Leveraging Message-Passing to Highlight Consistent Structures and Identify Network Communities~~
~~*Abhijeet Sonawane and Kimberly Glass*~~

~~B32. A systems approach to refine disease taxonomy by integrating phenotypic and molecular networks~~
~~*Xuezhong Zhou, Arda Halu, Joseph Loscalzo and Amitabh Sharma*~~

B33. Improving Core Resilience of Network under Random Edge Deletion
Ricky Laishram, Sucheta Soundarajan, Tina Eliassi Rad, Ahmet Erdem Sariyuce and Ali Pinar

B34. Understanding how the human mobility network shapes the global invasion pattern of pandemic influenza: a network-based approach
Kaiyuan Sun, Dina Mistry, Ana Pastore Y Piontti, Luca Rossi, Marcelo Ferreira Da Costa Gomes and Alessandro Vespignani

B35. Deliberation as Collaborative Search Through Belief Space
Sarah Shugars

B36. Rank Aggregation for Determining Importance of Nodes in Complex Networks
Igor Zakhlebin and Emoke-Agnes Horvat

B37. Proposal of Strategic Link Addition for Improving the Robustness of Multiplex Networks
Yui Kazawa and Sho Tsugawa

B38. Terrorist Network Analyzed with an Influence Spreading Model
Vesa Kuikka

B39. Robust Network Connectivity: A Percolation Study
Arman Mohseni-Kabir, Mihir Pant, Don Towsley, Saikat Guha, Paul Yu and Ananthram Swami

~~B40. Target Control of Boolean Network Models using Domain of Influence of nodes~~
~~*Gang Yang and Réka Albert*~~

~~B41. Maxmin-Omega: Deterministic Asynchrony on Networks~~
~~*Ebrahim Patel*~~

B42. Silhouette for the Evaluation of Community Structures in Multiplex Networks
Alessia Amelio and Andrea Tagarelli

B43. Propagation of Negative Shocks through Firm Networks: Evidence from Simulation on Nation-wide Supply-Chain Data
Hiroyasu Inoue and Yasuyuki Todo

B44. Dynamics and Topology of Zika Virus Epidemics
Daniel Goldsmith, Joshua Blau and Marian Gidea

B45. Using Arborescences to Estimate Hierarchicalness in Directed Complex Networks
Michele Coscia

B46. Degree correlation induced bimodality in controlling complex networks
Tao Jia, Yongqing Liang and Rui Zhang

B47. Semi-supervised Graph Embedding Approach to Dynamic Link Prediction
Ryohei Hisano

B48. Jaccard curvature – An efficient proxy for Ollivier-Ricci curvature in graphs
Siddharth Pal, Feng Yu, Terrence Moore, Ram Ramanathan, Amotz Bar-Noy and Ananthram Swami

B49. Information Diffusion Pattern among Shareholders Considering Indirect Tunnels Revealed by Link Prediction
Qing Guan, Haizhong An, Xiaoqi Sun, Xueyong Liu and Feng An

~~B50. Evolution through bursts: Network structure develops through localized bursts in time and space~~
~~*Hilla Brot, Lev Muchnik, Jacob Goldenberg and Yoram Louzoun*~~

B51. A Weighted Link Removal Model to Simulate an Environmental "Attack" on a Coral Reef Mutualism Network
Sara Williams

B52. Network Backboning with Noisy Data
Michele Coscia and Frank Neffke

B53. Using a structural approach to link network, dynamics and perturbations
Simone Cenci, Chuliang Song and Serguei Saavedra

B54. Network Classification and Categorization
Karl Schmitt, James Canning, Emma Ingram, Adriana Ortiz-Aquino, Nesreen Ahmed, Ryan Rossi, Sammantha Nowak-Wolff and Sucheta Soundarajan

B55. Module detection on functional brain networks during development using resting-state fMRI
Rodrigo Pineda, Nadia Gonzalez and Pablo Padilla

B56. Causal Emergence in Complex Networks
Brennan Klein and Erik Hoel

B57. Weighted openness coefficient as a measure of creative potential
Balazs Vedres

B58. The Geography of Transnational Institutional Work Networks
Kristjan Jespersen, Caleb Gallemore, Arno Kourula and Roy Suddaby

B59. Competing dynamical processes on two interacting networks
Lucila Gisele Alvarez-Zuzek, Cristian E La Rocca, Federico Vazquez and Lidia A. Braunstein

B60. Optimal disintegration strategy based on tabu search in directed networks
Yang Yu, Ye Deng, Jun Wu, Zhiwei Yang and Yuejin Tan

B61. Social Influence (Deep) Learning for Human Behavior Prediction
Luca Luceri, Torsten Braun and Silvia Giordano

B62. Graphical Object-Oriented Data Analysis for Analyzing Sets of Graphs
William Shannon

~~B63. Brain classification using entropy measure~~
~~*Jesús Antonio Jiménez, Nadia González García and Pablo Padilla Longori*~~

B64. Fast streaming small graph canonization
Pedro Paredes and Pedro Ribeiro

B65. Modular decomposition of protein structure using community detection
William Grant and Sebastian Ahnert

B66. Does It Really Matter Where You Go to College? A Network-Based Analysis of Educational Outcomes of Universities in the United States
Ewa Sulicz and Juwairiyah Shaikh

B67. How Will the Transfer of Using Alternatives to Fossil Fuels Affect Trade Networks and Economic Interconnectedness?
Chris Vincens and Danyal Shah

B68. Music Intervals Conecting Music of Different Culture
Harrison Barnes and Joyce Zhu