NetSci 2026
Auckland, New Zealand

PROGRAMME

Sir Owen Glen G Building
Auckland, New Zealand

17th-20th February 2026

Network Science to Understand the Weaving of the World

Waipapa Taumata Rau
University of Auckland

Sir Owen G Glenn Building
Level 1

GRAFTON ROAD

WYNYARD STREET

Main entrance

Sir Owen G Glenn Building (OGGB) Foyer 101

John Hood Plaza

Fisher & Paykel Appliances Auditorium

Stairs to Level 1 —

P

Sir Owen G Glenn Building
Level 0

WYNYARD ST

GRAFTON ROAD

Lift to Level 1 and Car Park

Lab 8

EXIT

Case Room 4 009

Case Room 1 005

Fisher & Paykel Appliances Auditorium

Lecture Theatre OGGB5

Case Room 3 055

Case Room 2 057

Stairs to Level 1 Access to Fisher and Paykel Auditorium

Lift to Level 1

Foyer 260-071

Lecture Theatre OGGB4

Accessible access

Room 040

Foyer 260-088

Lecture Theatre 098

Room 040B

Lecture Theatre OGGB3

Programme

TUESDAY 17TH FEB

School morning session 1 - 260-073	
From 8:00	Registration Open
9:00-10:15	Meso-scale organization of networks: theory and applications (1/2) – Eduardo Altman
10:15-10:45	Morning tea
School morning session 2	
10:45-12:00	Meso-scale organization of networks: theory and applications (2/2) – Eduardo Altman
12:00-1:15	Lunch
School afternoon session 1	
1:15-2:30	Indigenous Data Sovereignty – Daniel Wilson
School afternoon session 2	
2:30-3:45	Gentle Introduction to Deep Graph Learning for Network Scientists – Ingo Sholtes
3:45-4:15	Afternoon tea
School afternoon session 3	
4:15-5:30	Ecological Networks: from data reconstruction to dynamical insights – Kate Wootton and Anshuman Swain
Social session 1	
5:40-late	Mihi - Tui Kaumoana & Michael Steedman - 5:40pm Panel Discussion 5:50pm Welcome Reception - 6:45pm

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WEDNESDAY 18TH FEB

Keynote 1				
8:00	Registration - Level 1 Foyer			
9-10:00	Tina Eliassi-Rad: Rethinking Optimization through Hypergraphs - 260-073			
Parallel 1	**Stream 1 - 260 - 073**	**Stream 2 - 260-057**	**Stream 3 - 260-115**	**Stream 4 - 260-098**
10-10:30	**Morning tea**			
10:30 - 12:30	**Graph Neural Networks and Generative Graph Models**	**Network Control, Synchronization, and Interventions**	**Spreading Dynamics and Polarization**	**Higher-Order Networks and Hypergraphs (I)**
10:30	Deep Graph Generation for Microcanonical Graph Ensemble. Hoyun Choi, Deok-Sun Lee	Multiscale Organization of the Human Connectome via Laplacian Renormalization. Gabriele Poidomani, Pablo Villegas, Tommaso Gili	Political Information Dissemination by Domestic Political Actors in Pakistan. Hassan Mustafa	Loops, not groups: Long loops are responsible for discontinuous phase transitions in higher-order network contagions. Leah A. Keating, Laurent Hébert-Dufresne
10:45	Efficient Neural Community Detection in Attributed Graphs with a Temporal Modularity Loss Function. Nelson Aloysio Reis de Almeida Passos	Distinct Synchronization Profile of the Gate Node in a Modular Power Grid. Jonghoon Kim, Cook Hyun Kim, Heetae Kim	How Social Ties Mobilize and Polarize: Social Network Determinants of Election Outcomes. Yuliia Kazmina	Higher-order interactions accelerate cultural recombination. Onkar Sadekar, Lucio Vinicius, Andrea Migliano, Vito Latora, Federico Battiston
11:00	Characterizing the dynamics of unlabelled temporal network trajectories. Annalisa Caligiuri, Tobias Galla, Lucas Lacasa	Selecting controlled edges in edge-based pinning control synchronization. Siyang Jiang	Social network heterogeneity promotes depolarization of multidimensional opinions. Jaume Ojer, Michele Starnini, romualdo pastor satorras	Cooperation in social dilemmas on higher-order networks. Onkar Sadekar, Andrea Civilini, Federico Battiston, Jesús Gómez-Gardeñes, Vito Latora
11:15	Graph Theory Signatures of Seizure Susceptibility in scn1lab-/-Zebrafish Network. Wei Qin, Ethan Scott	Hierarchical structure of redundancy and synergy in brain networks across goal-directed learning. Leonardo Di Gaetano, Alain Barrat, Andrea Brovelli	Social compensation strategies in response to individual loss in natural populations. Eloise F. Newman, Adelaide Daisy Abraham, Josh A Firth	Discovering Higher-Order Interactions in Hypergraphs via Projections: Concepts & Algorithms. Elise Tate, Joshua Grochow
11:30	Enhancing Graph Neural Networks with Random Graph Ensembles. Jan von Pichowski, Vincenzo Perri, Ingo Scholtes	Oscillatory adaptive networks in cognition-like processes: from slime moulds to brain organoids. Linnea Gyllingberg	Quantifying Influence of Network Structure on Opinion Dynamics. Yu Xing	SIRS processes competing on simplicial complexes. Haiying Wang, Lina Zhao, Huijie Yang, Changgui Gu, Jack Murdoch Moore
11:45	Using Temporal Graph Isomorphism to Understand the Expressivity of Temporal Graph Neural Networks. Franziska Heeg, Jonas Sauer, Petra Mutzel, Ingo Scholtes		Explaining the Game: Network Science in Soccer. Javier M. Buldú	Symbolic Higher-Order Analysis of Multivariate Time Series. Andrea Civilini, Fabrizio de Vico Fallani, Vito Latora
12:00	Quantum Preferential Attachment. Istvan A. Kovacs			

12:15-1:15	Lunch			
Keynote 2				
1:15-2:15	Lewis Mitchell: Structure and Stories: Adventures in studying the relationship between network configurations and the spread of content- 260-073			
Parallel 2	**Stream 1 - 260-073**	**Stream 2 - 260-057**	**Stream 3 - 260-115**	**Stream 4 - 260-098**
2:15 - 3:45	**Mobility, Accessibility, and Urban Networks**	**Culture, Knowledge, and Online Information**	**Community Structure and Detection**	**Higher-Order Networks and Hypergraphs (II)**
2:15	Impact of network structures on emergency services - Examples from Germany. Melanie Reuter-Oppermann	Cultural Evolution of Human Beauty Standards. Louis Boucherie, Karolina Sliwa, August Lohse, Sagar Kumar, Katharina Ledebur	Beyond NMI: Reliable Community Detection Evaluation Using Kappa Index and F-Score. Xin Liu, Huimin Cheng, Zhong-Yuan Zhang	Disentangling the role of heterogeneity and hyperedge overlap in explosive contagion on higher-order networks. Federico Malizia, Andrés Guzmán, Iacopo Iacopini, István Z. Kiss
2:30	Women mobility networks enable more efficient travel. Silvia De Sojo, Sune Lehmann, Laura Maria Alessandretti	How Collective Memory Gets Forgotten: The Origins of Relaxation Speed in Social Video Sharing Platform. Kiminori Ito	Individual Fairness in Community Detection: Metrics and Insights. Fabrizio Corriera, Frank W. Takes, Akrati Saxena	Global Supply Chain Resilience and Geopolitical Uncertainty. Xinyi Zhao, Prasanna Gai, Chanelle Duley
2:45	ATGreen(GO): A multi-dimensional framework to measure accessibility and promote exposure to urban green. Rossano Schifanella, Alice Battiston	The dichotomy of knowledge: Evolutionary dynamics with game transitions on social networks. Amit Basak, Supratim Sengupta, Maria Kleshnina	Local epidemic thresholds on networks: community-specific risk from mobility-driven interactions. Eugenio Valdano, boxuan wang	Weak higher-order interactions enhance synchronization: a study on the Kuramoto model - Contributed Talk. Riccardo Muolo, Hiroya Nakao, Marco Coraggio
3:00	Mixture models uncover polycentric urban structure from mobility networks. Andrew Renninger	Who Gets the Blame? A Structural Theory of Scapegoating in Social Networks. Qinyang Yu	Bipartite Patent Networks Reveal Hidden Diversity in Innovation: Communities, Market Structure, and Fitness‚ÀiComplexity. FEI WANG	Pairwise approximations of simplicial contagion models on hypergraphs. Eugene Tan
3:15	Exploring Pedestrian Permeability in Urban Sidewalk Networks. Albert Sole-Ribalta, Javier Borge-Holthoefer, Robert Benassai-Dalmau	Mapping emergent knowledge in Wikipedia through complex networks. Gustavo A. Schwartz	Synchronisation Detection Using Spatial Ordinal Partitions in Networks. Zahra Shahriari, David M. Walker, Shannon D. Algar, Michael Small	Multi-Order Hypergraph Stochastic Block Model. Kazuki Nakajima, Yuya Sasaki, Takeaki Uno, Masaki Aida
3:30			Meso-scale Structures in Signed Networks. Wei Zhang, Olga Boichak, Tristram Alexander, Tiago P. Peixoto, Eduardo Altmann	
3:45-4:15	**Afternoon tea**			
Short talks plenary 1				
4:15-5:30	Spotlight talks - please see poster list at the end of program 260-073			
Social session 2				
5:30-7:30	Poster session and reception - Foyer Level 1			

THURSDAY 19TH FEB

Keynote 3	
8:00	Registration Open
9:00-10:00	Rio Sun: How do network dynamics solve hard optimization problem - 260-073

Thematic sessions 1	Stream 1 - 260-073	Stream 2 - 260-057
10-10:30	**Morning tea**	
10:30 - 12:00	**Discrete network models in biology**	**Networks in Science of Science**
MORNING	• Erszebet Regan, Wooster College • Pradyumna Harlapur, IISC Bangalore • Claus Kadelka, Iowa State University	• Dr. Kyle Higham - Research-policy ecosystems • Dr. Vaccario Giacomo - Knowledge on the move: Reconstructing scientists' mobility network • Yasaman Asgari - The Shifting Geography of Attention in Global Science.

Thematic sessions 2	Stream 1 - 260-073	Stream 2 - 260-057
1:15-2:45	**Algorithmic Fairness in Network Science**	**The Scales of Movement**
AFTERNOON	• Dr. Akrati Saxena- Algorithmic Fairness in Network Science • Dr. Giulia De Pasquale- Network Awareness Promotes Fairness in Recommender Systems • Georgios Panayiotou- MOUFLON: Multi-group Modularity-based Fairness-aware Community Detection • Yasaman Asgari- Beyond One-Hop Neighbourhoods in Social Perception • Closing Remarks -Dr. Akrati Saxena	• Opening Talk - Katarzyna Sila-Nowicka • Hongyi Zou - How Data Quality and Threshold Selection Influence Home Location Detection from Mobile Phone Location Data • I-Ting Chuang - Understanding Neighbourhood Change and Walking through Human Mobility Data • Andrew Renninger - Postdoctoral Researcher, Department of Network and Data Science, Central European University (CEU)

Keynote 4	
2:45-3:45	Yukie Sano: Decoding Human Dynamics through Digital Traces: Collective Attention, Emotion, and Network Topology for Social Good- 260-073
3:45-4:15	**Afternoon tea**

Short talks plenary 2

4:15-5:30	Lightning Talks - 260-073

Lightning Talks - 260-073

1. Tie Strength characterization in Dutch Cocaine Trafficking Networks. *Frederike Oetker, Rick Quax*
2. Biclique in Global Bank Shareholder Networks. *Oscar M. Granados*
3. Evolution and determinants of firm-level systemic risk in local production networks. *Giulio Cimini, Riccardo Di Clemente, Anna Mancini, Balázs Lengyel*
4. Discerning media bias within a network of political allies and opponents: the idealized example of a biased coin. *Nicholas Kah Yean Low, Andrew Melatos*
5. Interactive Web Interface for Korea's Statute Network Using Community-Aware Layout. *Maryam Shakeri, Juyong Park*
6. Higher-order correlations reveal complex memory in temporal hypergraphs. *Luca Gallo, Lucas Lacasa, Vito Latora, Federico Battiston*
7. Work Engagement through Collective Emotions of Japanese Workers. *KANTARO KAWAI, Koutarou Tamura, Yukie Sano*
8. Dependency Networks of Emotional Facial-Expression in Mood and Anxiety Disorders. *Yael Jacob, Giada Dirupo, James Murrough, Laurel Morris*
9. Network-Theoretic Mapping of Breast Cancer in India through Functional Cartography in Gene Regulatory and Protein-Protein Interactions *Yanjusha Madhu, Dr. Jasleen Gund, Dr. Priyanka Jain*
10. myAURA: a personalized health library for epilepsy management via knowledge graph sparsification and visualization. *Luis M Rocha*
11. Structure matters: bipartite contact networks and vaccination. *Zoe Kumbaroff, Emily Harvey, Dion O'Neale, Jesse Whitehead*
12. Disentangling individual-level from location-based income uncovers socio-economic preferential mobility and impacts segregation estimates. *Andrew Renninger*
13. Collaborative Networks in Tourism Disaster Management: A Case Study of Rural, Nature-based Destinations in New Zealand. *Lucia Danzi, Caroline Orchiston, James Higham, Rodolfo Baggio*
14. The network Liouville equation and the quest to understand complex networks on a general dynamical trajectory. *Andrea Filippo Beretta*
15. Individual Navigation Strategies in the Knowledge Space. *Manran Zhu, Janos Kertesz*
16. Analysing community-level spending behaviour contributing to high carbon emissions using stochastic block models. *Ognyan Simeonov, Valerio Restocchi, Benjamin Goddard*
17. Latent Preferences: Friendship and Peer Tutor Networks. *Fatimah Abdul Razak*
18. The Ethics of Networks: Fairness, Power, and Responsibility in Venture Capital. *Marta Zava*

Social session 3

7:00-late	Conference dinner at the Hilton 147 Quay Street, Auckland Central, Auckland 1010

FRIDAY 20TH FEB

Keynote 5	
8:00	Registration Open
9:30-10:30	Clare Postlethwaite:From networks in physical space to networks in phase space - 260-073

10:30-11	**Morning tea**		
Parallel 3	**Stream 1 - 260-073**	**Stream 2 - 260-057**	**Stream 3 - 260-055**	**Stream 4 - 260-092**

11-12:00	**Multilayer Social Networks: Perception, Fairness, and Influence**	**Optimal Transport, Embeddings, and Network Inference**	**Health and Biological Networks**	**Collaboration and Influence**
11:00	DQ4FairIM: Fairness-aware Influence Maximization using Deep Reinforcement Learning. Akrati Saxena, E Harshith Kumar Yadav, Shashi Shekhar Jha	Cost and preferences in bipartite complex systems: inverting the (sub-)optimal transport problem. Dario Mazzilli	Cell Interrupted - Modeling Epithelial to Mesenchymal Transition vs. Mitochondrial Dysfunction-Associated Senescence Tug of War. Erzsebet Ravasz Regan	Network Dynamics of Scientific Fields: Centralization and Stability in Conceptual and Citation Structures. Csaba Kiss, Dr. Roland Molontay
11:15	Fairness-Aware PageRank Approximation. Mukesh Kumar, Gaurav Dixit, Akrati Saxena	Hyperbolic Embedding of Multilayer Networks. Mario Chavez	Nested Networks in Health: Linking Microbiomes and Interspecies Contact to Address Cross-Scale Complexity. David T S Hayman	Spatial-Temporal Information Processing Pathways and Mechanisms Identified in AI Citation Networks Tsung-Wen Yen, Siew Ann Cheong, YiFei Li, Kelin Xia
11:30	Applicability of the Minimal Dominating Set for Influence Maximisation in Multilayer Networks. Michał Czuba, Mingshan Jia, Katarzyna Musial-Gabrys, Piotr Bródka	Estimation, Experimental Design, and Optimal Policy when Facing Partial Network Data from a Single Network. Tyler McCormick	Robust Basins, Fragile Attractors: A New View on Biological Network Dynamics. Claus Kadelka, Venkata Sai Narayana Bavisetty, Matthew Wheeler	Using Temporal Collaboration Networks to Understand Activity Cascades in OSS Communities. Lisi Qarkaxhija, Ingo Scholtes
11:45	Unmasking Covert Control in Global Corporate Governance. Takayuki Mizuno, Shuhei Kurizaki		Association between oral microbiota and close-range proximity of children in primary school. Lorenzo Dall'Amico, Xiangning Bai, Sandra Marie Weltzien, Simon Rayner, Daniela Paolotti, Isabelle Sylvie Budin Ljsne, Andreas Matussek, Anne-Sofie Furberg, Ciro Cattuto, Christopher Sivert Nielsen	A Multiplex Lens on Influencer Performance, Group Synergy, and Network Centralization Keywords: Multiplex Networks, Team Performance, Group Synergy, Motivation, Influence. Megan Alexis Chan, Shraeya Iyer, Isabel Su, Jeffrey Tu, Noshir Contractor

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12-1:15	Lunch		
Parallel 4	**Stream 1 - 260-073**	**Stream 2 - 260-057**	**Stream 3 - 260-055**
1:15-2:30	**Finance, Trade, and Systemic Risk Networks**	**Network Theory and Measures**	**Dynamics on Networks Across Domains**
1:15	Filtering amplitude dependence of correlation dynamics in the crypto-currency market. Marcin Wątorek, Jarosław Kwapień, Stanisław Drożdż	Learning by Surprise: Surplexity for Mitigating Model Collapse in Generative AI. Daniele Gambetta, Gizem Gezici, Fosca Giannotti, Dino Pedreschi, Alistair Knott, Luca Pappalardo	Extending Earthquake Network Models with a Magnitude-Based Time-Window Approach. Jennifer Ribeiro Silvério da Conceição, Douglas Santos Rodrigues Ferreira
1:30	Temporal Motif Structures in Japanese Corporate Shareholding Networks. Shinichiro Tanabe, Takaaki Ohnishi	Similarity and complementarity in generalized random geometric graphs. Szymon Talaga, Brennan Klein	Balancing Stability and Complexity in Boolean Models of Biological Networks. Venkata Sai Narayana Bavisetty, Matthew Wheeler, Claus Kadelka, Reinhard Laubenbacher
1:45	Complementary network models to assess social-ecological fit: A case of flood planning in the Wolastoq. Bridget McGlynn, Angela Guerrero Gonzalez, Julia Baird, Örjan Bodin, Ryan Plummer	Extension of shortest path based Betweenness centrality to the multicriteria case. Andrea Raith, Clara Simón de Blas, Daniel Gomez	A network analysis of collective motions in a three-species Vicsek model. Seung-Woo Son
2:00	Information Processing Pathways in the Stock Markets. Kang Zheng Tien, Peter Yen Tsung-Wen, Siew Ann Cheong, Tiziana Di Matteo, Kelin Xia	The ultrametric backbone is the union of all minimum spanning forests. Luis M Rocha, Jordan C. Rozum	Structural dynamics of plant-pollinator mutualistic networks. Albert Sole-Ribalta, Aniello Lampo, Javier Borge-Holthoefer, María J. Palazzi
2:15	US and EU Aid and Trade, and the Relationships with Human and Environmental Crises. Rosie Hayward, Peter Klimek, Asjad Naqvi	First return processes of non-backtracking random walks on random networks. Ofer Biham, Dor Lev-Ari, Ido Tishby, Eytan Katzav, Diego Krapf	Influence of networked partisans on perceptions of media bias. Yutong Bu, Andrew Melatos
2:30	Network Security under Heterogeneous Cyber-Risk Profiles and Contagion. Elisa Botteghi, Martino Centonze, Davide Pastorello, Daniele Tantari		
2:45	Conference close		

Posters

110	Toward a First-Principles Theory of Resilience for Complex Quantum Networks *Vignesh Raman, Riccardo Bassoli, Frank H.P. Fitzek*
112	Reinforcement Learning For Respondent-Driven Sampling *Justin David Naggar Weltz, Angel Yoon, Yichi Zhang, Alexander Volfovsky, Eric Laber*
113	PrEParados Model: Developing and Implementing a Community-Engaged Social Network Approach to HIV Prevention – *Edda Rodriguez, Lacey Despres, Ana Bravo, Ariana L. Johnson, Lilliana Vilchez, John Skvoretz, Mariano Kanamori*
114	Sexual Partnership Contexts among Latino Men in Miami, Florida: A Multilevel Latent Class Analysis of Egocentric Network Data – *Lacey Despres, Edda Rodriguez, Ariana L. Johnson, Ana Bravo, Lilliana Vilchez, Susanne Doblecki-Lewis, Stephen Fallon, Mariano Kanamori*
115	Entropy-based node centralities in networks: Targeted attacks on Watts, – Strogatz and power grid systems – *Davide Fallara*
117	Citation Distance Matters: Towards a New Metric for Evaluating Journal Impact *Roland Molontay, Kate Barnes, Levente Török*
118	ROADS - A Unified Network-Based Framework for Road System Indicators *Nita Andreea*
119	Stratification of Cancer Patients Using Visit Trajectory Analysis – *Simon D. Lindner*
120	Quantifying Rhythmic Creativity in Classical Music – *Halla Kim, Juyong Park*
121	From Local Hubs to Global Effects: A Multilayer Network Approach to Earthquake Dynamics – *Jennifer Ribeiro Silvério da Conceição, Douglas Santos Rodrigues Ferreira*
122	Testing Most Influential Sets – *Nikolas Kuschnig, Lucas Darius Konrad*
123	A Novel Ant Colony Optimization Approach for Core–Periphery Detection in Networks – *Imran Ansari, Dr. Qazi J Azhad, Dr. Niteesh Sahni*
124	Polarization and Opinion Shifts in HPV Vaccine Discourse on Twitter(X) *Mami Iida, Ai Hori, Yukie Sano*
125	Inferring the Contact Network Structure of Infectious Diseases: Applications of Likelihood-Free Inference for Epidemiological Agent-Based Modelling *James Bristow, David T S Hayman, Matthieu Vignes*
126	Shopping Abroad: Cross-Border Venture Capitalism in Artificial Intelligence *Marta Zava*
127	Dynamics and Diversity of a Cross-feeding Microbial Ecosystem *Takashi Shimada, Kunihiko Kaneko*
128	Spectral fluctuations and crossovers in multilayer network *Himanshu Shekhar, Ashotosh Dheer, Santosh Kumar(deceased), N. Sukumar*
129	Vehicular Mobility Networks in a Regional City: A Preliminary Case Study *Takahiko Sakuma, Yingshuai Wang, Takashi Miyata, Yukie Sano*
130	The trickle down from environmental innovation to productive complexity *Francesco de Cunzo, Alberto Petri, Andrea Zaccaria, Angelica Sbardella*

131	Predicting Commercial Activity with People Flow Data and Point of Interest Data using Spatio-Temporal Graph Convolutional Network – *Divya Bala, Yudai Ueno, Rinko Shinzato, Keisuke Chujo, Toshiki Murata, Yoshiya Shigeeda, Kosti Koistinen, Chandreyee Roy, Fumiko Ogushi, Takashi Shimada, Kimmo Kaski*
132	Reliability assessment of Australia's Internet infrastructure using a multilayer network model – *Benjamin Lang, Matthew Roughan, Hung Nguyen*
133	Extracting Area Characteristics from People Flow and POI Data Using Graph Neural Networks – *Yudai Ueno, Divya Bala, Rinko Shinzato, Keisuke Chujo, Toshiki Murata, Yoshiya Shigeeda, Koistinen Kosti, Roy Chandreyee, Fumiko Ogushi, Takashi Shimada, Kimmo Kaski*
134	Personlalized PageRank centrality from a Fixed Point Theory perspective *Miguel Romance*
135	Toward a Multi-Dimensional Valuation of Personal Data in the Digital Economy *Junaid Haseeb, Vimal Kumar, Mubashir Qasim, Sara Rawlence*
136	Direct Quantification for Stability from Linear Dynamical Systems on Networks *Jieru Liao*
138	Inferring missing edges from Cartesian products of graphs *Adam H. Hamilton, Hung Nguyen, Matthew Roughan*
139	Spatial Analysis of Starbucks and BEP Stores in Seoul Examined by Subway Network – *SeGi Yu*
140	Critical threshold for synchronizability of high-dimensional Kuramoto oscillators under higher-order interactions – *Dohyun Kim*
141	Thermal Conductance Graph (TCG): A Novel Physics-Inspired Method for Time Series to Complex Network Mapping – *Subhayan Nag, K. Satheesh Kumar, Manoj Kumar T. K.*
142	Countering counterfeiters: The Mittheilungen des Museen-Verbandes and forgery networks in the 20th century – *Demival Vasques Filho, Jaap Geraerts, Henry Keazor, Rebecca Welkens, Thorsten Wübbena*
143	Unveiling the importance of nonshortest paths in quantum networks *Xinqi Hu, Gaogao Dong, Kim Christensen, Hanlin Sun, Jingfang Fan, Zihao Tian, Jianxi Gao, Shlomo Havlin, Renaud Lambiotte, Xiangyi Meng*
144	Comparison of link prediction methods on synthetic and real networks *Alexey Vlaskin, Eduardo Altmann*
146	Networks meet mating systems, – a new approach to studying animal behaviour *Zita Roithmair, Dion O'Neale, Eileen Hebets, Matjaž Kuntner, Christina Painting*
148	Efficient quantification of canalization in automata networks *Luis M Rocha, Jordan C. Rozum, Herbert Sizek*
149	Interdisciplinary Training in Complex Networks and Systems *Luis M Rocha, Deborah S. Rocha*
151	Task-Focused Dynamic Network Inference from Node Attribute Time Series *Namrata Banerji, Tanya Berger-Wolf*

152	Measuring Cascade Networks on X: The Hyogo Gubernatorial Election *Genta Toya, Bruno T. Sugano, Shuhei Saigusa, Yasuhiro Hashimoto, Masashi Toyoda, Naoki Yoshinaga, Kazutoshi Sasahara*
153	Behavioural responses to the loss of key social relationships in a wild bird system *Adelaide Daisy Abraham, Ben Sheldon, Josh Firth*
154	A Forecast Model for COVID-19 Spread Trends Using Blog and GPS Data from Smartphones – *Kenta Yamada, Ryosuke Susuta, Hideki Takayasu, Misako Takayasu*
155	Transitions to synchronization in adaptive multilayer networks with higher-order interactions – *Richita Ghosh, Md Sayeed Anwar, Dibakar Ghosh, Juergen Kurths, Manish Dev Shrimali*
156	Impact of innovation on opinion diversity in voter models – *Byungjoon Min*
158	Control Spread via Multilayer Network Manipulation – *Michał Czuba, Łukasz Kraiński, Mateusz Stolarski, Bogumił Kamiński, Pawel Pralat, Katarzyna Musial-Gabrys, Piotr Bródka*
159	Graph Reduction in Multirelational Networks: A Spreading-Oriented Benchmark *Mateusz Stolarski, Michał Czuba, Piotr Bielak, Piotr Bródka*
161	Comparing Network Similarity Metrics for Structural Change Detection in Evolving Mineral Trade Networks – *Yashar Perhat*
162	Probing Persistent Structures in Stock Markets and Citation Networks at Multiple Length Scales – *Siew Ann Cheong, Kang Zheng Tien, Peter Tsung-Wen Yen, Kelin Xia*
164	Multilayer Artificial Benchmark for Community Detection (mABCD) – *Łukasz Kraiński, Michał Czuba, Piotr Bródkaa, Pawel Pralat, Bogumił Kamiński, François Théberge*
165	Disparate effects of resonances in delay-based reservoir computers for chaotic attractor reconstruction – *Kathy Lüdge, Lina Jaurigue*
166	Network spreading from network dimension – *Jack Murdoch Moore, Michael Small, Gang Yan, Huijie Yang, Changgui Gu, Haiying Wang*
167	Predicting higher-order spreading dynamics with unknown topology *Cong Li, Zili Zhou, Piet Mieghem, Bo Qu, Xiang Li*
168	Modeling Opinion Dynamics and Social Network Algorithms *Henrique Ferraz de Arruda, Kleber A. Oliveira, Yamir Moreno*
169	Using the power of community detection in marine networks *Ane Pastor Rollan, Eric L. Berlow, Rich Williams, Eric A. Treml*
170	Analysis of Dynamic Trade Network Under Attacks – *Reetendra Singh, Shivshanker Singh Patel*
171	A route to higher-order Kuramoto models through phase reduction theory - Lightning Talk – *Riccardo Muolo, Iván León, Shigefumi Hata, Hiroya Nakao*
7	On modularity-based fair community detection – *Georgios Panayiotou*
999	Optimal sensor placement for data assimilation applied to dynamics on networks - *Lauren Smith*