

MONDAY 24/9 ROOM 1

08:45 – 09:00

Opening Talks

09:00 – 09:45

Cascading phenomena in social processes | Janos Kertesz

09:45 – 10:30

The Complexity of Sociology and the Sociology of Complexity | Fredrik Liljeros

10:30 - 11:00

Coffee Break

11:00 - 11:15

Modified Schelling segregational modeling of multiethnic societies and migration

| Georgios Mitkidis, Georgia Dede and Elpida Tzafestas

11:15 - 11:30

Detectability of Macroscopic Structures in Directed Networks: a Stochastic Block Model Approach | Mateusz Wilinski, Daniele Tantari, Piero Mazzarisi and Fabrizio Lillo

11:30 - 11:45

Structural Constraints on the Mixing Patterns of Binary Node Metadata

| Matteo Cinelli, Leto Peel, Antonio Iovanella and Jean-Charles Delvenne

11:45 - 12:00

Lost in Nestedness? Assessing the performances of nestedness indicators in mutualistic ecosystems | Claudia Payrato-Borras, Laura Hernandez and Yamir Moreno

12:00 - 12:15

Spreading processes in complex networks: a Cellular-automaton analysis

| Guilherme Ferraz de Arruda, Emanuele Cozzo, Pablo Rodriguez, Francisco Rodrigues and Yamir Moreno

12:15 - 12:30

Knowledge Diffusion in Networks conditioned by Agents' Awareness

| Ioannis Antoniou, Evangelos Ioannidis, Nikolaos Varsakelis

12:30 - 12:45

Epidemic spreading in modular time-varying networks

| Matthieu Nadini, Kaiyuan Sun, Enrico Ubaldi, Michele Starnini, Alessandro Rizzo, Nicola Perra

12:45 - 13:00

Statistical mechanical extension of the Refined Minimum Description Length and the problem of community detection in complex networks

| Juan Ignacio Perotti, Claudio Juan Tessone, Aaron Clauset, Guido Caldarelli

13:00 – 14:30

Lunch Break

14:30 – 15:15

Big Data for understanding human dynamics: the power of networks | Fosca Giannotti

15:15 – 16:00

Optimality and Scaling in Living Systems and Ecological Communities: The Case of Plants and Forests | Amos Maritan

16:05 – 16:09

Social tipping elements instrumental for decarbonization by 2050

| Ilona M. Otto, Jonathan F. Donges, Avit Bhowmik, Roger Cremades Wolfgang Lucht

16:09 – 16:13

Scaling Patterns in Basic Sanitation Expenditure: the case of Brazil

| Ludmila D. Ribeiro, Fernando F. Ferreira and Camilo R. Neto

16:13 – 16:17

Capturing Interpersonal Synergies on Badminton

| Kike Lacasa Claver, Pedro Passos, Joao Milho and Carlota Torrents

16:17 – 16:21

Assessing nutritional diversity of barcoded food products: the Swiss market case-study

| Gianrocco Lazzari and Marcel Salathe

16:21 – 16:25

Data Mining and Networks Analysis of Mammalians as Potential Reservoirs of Viruses and Pathogens: The Colombian Northeastern Region Revision Case.

| Carlos Caceres, Juan Acevedo, Richard Hoyos-Lopez, Nelson Fernandez and Yesid Madrid

16:30 – 17:00

Coffee break

17:00 – 17:30

Facing complexity with self-organization | Carlos Gershenson

17:30 - 17:45

Complex Contagion: Competition, dual users and heterogeneous adoptability

| Maxi San Miguel and Byungjoon Min

17:45 - 18:00

Efficient detection of hierarchical block structures in networks

| Michael Schaub and Leto Peel

18:00 - 18:15

Generic features of temporal evolution in hierarchical complex systems

| Gerardo Iniguez, Carlos Pineda, Carlos Gershenson, Jose A Morales and Albert-L. Barabasi

18:15 - 18:30

Threshold cascade dynamics on signed networks | Sungmin Lee, Jaewook Kim, Kyu-Min Lee and Kwang-Il Goh

18:30 - 18:45

Information Diffusion Backbones in Temporal Networks | Xiuxiu Zhan, Alan Hanjalic, Huijuan Wang

18:45 - 19:00

Multiple structural transition of interacting networks

| Giacomo Rapisardi, Giulio Cimini, Guido Caldarelli, Alex Arenas

MONDAY 24/9 ROOM 2

- 11:00 - 11:30** | **Emergence of encounter networks due to human mobility** | Jose Mateos
- 11:30 - 11:45** | **Anomalous Behaviors of Diffusion in Temporal Multiplex Networks**
| Emanuele Cozzo, Conrad Perez-Vicente, Albert Diaz-Guilera
- 11:45 - 12:00** | **A dynamical approach to block structure analysis** | Mauro Faccin,
Michael Schaub,
Jean-Charles Delvenne
- 12:00 - 12:15** | **Does aggregation preserve communities?**
| Adeline Decuyper, Yerali Gandica, Christophe Cloquet, Isabelle Thomas, Jean-Charles Delvenne
- 12:15 - 12:30** | **Optimal Coupling in Directed Multiplex Networks: A new type of superdiffusion**
| Alejandro Tejedor, Anthony Longjas, Efi Foufoula-Georgiou, Tryphon Georgiou, Yamir Moreno
- 12:30 - 12:45** | **Overload of a network under a massive attack or random failure**
| Gabriel Cwilich, Yosef Kornbluth, Sergey Buldyrev
- 12:45 - 13:00** | **Are Emerging Behaviours a Key Attribute of Complex Systems?**
- 17:00 - 17:15** | **Turing instability in the context of language competition** | Alberto P. Munuzuri
- 17:15 - 17:30** | **Weighted multilayer competition fosters structural stability of mutualistic ecosystems** | Xiangrong Wang, Thomas K. Dm. Peron, Johan L. A. Dubbeldam,
Yamir Moreno
- 17:30 - 17:45** | **Individual-Community Interactions and Emergent Strategies in League of Legends** | Alyssa Adams
- 17:45 - 18:00** | **The Strong Reinforcement Effects of Bidirectionality of Interactions on the Robustness of Evolving Open Systems**
| Takashi Shimada, Fumiko Ogushi, Kimmo Kaski, Janos Kertesz
- 18:00 - 18:15** | **Modeling Systems with Coupled Dynamics (SCDs): A Multi-Agent, Networks, and Game Theory-based Approach**
| Osman Ortega, Yesid Madrid, Guillermo Restrepo, Wilmer Leal, Carlos Gershenson,
Nelson Fernandez
- 18:15 - 18:30** | **Leveraging Random-Walk Hitting Times for Influential Spreaders Identification** | Flavio Iannelli, Manuel Sebastian Mariani, Igor M. Sokolov
- 18:30 - 18:45** | **Time irreversibility of persistent time series generated by discrete Ito equation** | Monika Petelczyc, Zbigniew Czechowski
- 18:45 - 19:00** | **A simple model of cellular automata with inertia and applications in pattern formation and ecotones phenomena** | Marcos Da Luz

MONDAY 24/9 ROOM 3

- 11:00 - 11:30** | **Blockchain Technology for a Complex Society** | Tomaso Aste
- 11:30 - 11:45** | **Importance and Interactions of World Universities from 24 Wikipedia editions** | Celestin Coquide, Jose Lages, Dima L Shepelyansky
- 11:45 - 12:00** | **Bypassing Large Groups of Vulnerable Nodes in Complex Networks** | Sebastian M. Krause, Michael Danziger, Vinko Zlatic
- 12:00 - 12:15** | **Beware How You Cite: Reference Patterns From Successful and Unsuccessful Scientific Papers** | Julia Poncela-Casasnovas, Martin Gerlach, Luis Amaral
- 12:15 - 12:30** | **Social diversity for improving the performance of social learning** | Fernando Rosas, Deniz Gunduz, Kwang-Cheng Chen
- 12:30 - 12:45** | **Beyond community detection resolution limit: the Degree Corrected Asymptotic Significance** | Fabio Saracco, Carolina Becatti, Giuseppe Trapani
- 12:45 - 13:00** | **Higher Order Correlations and Complete Characterization of Bursty Dynamics** | Hang-Hyun Jo, Takayuki Hiraoka, Mikko Kivela
- 17:00 - 17:15** | **Evaluating Algorithm Fairness in an Agent-Based Taxi Simulation** | Eszter Bokanyi, Aniko Hannak
- 17:15 - 17:30** | **Analyzing Gender Inequality Through Large-scale Facebook Advertising Data** | David Garcia, Yonas Mitike Kassa, Angel Cuevas, Manuel Cebrian, Esteban Moro, Ruben Cuevas, Iyad Rahwan
- 17:30 - 17:45** | **The Interplay of Internal and External Traffic on Online Networks in the Prediction of Collective Attention** | Patrick Gildersleve, Taha Yasseri, Renaud Lambiotte
- 17:45 - 18:00** | **Entropy-based randomization of rating networks** | Fabio Saracco, Carolina Becatti, Guido Caldarelli
- 18:00 - 18:15** | **Classifying Conversation In Digital Communication** | Andrew Mellor
- 18:15 - 18:30** | **Proposal of mathematical model of prediction of human movement on sightseeing using position information** | Syunsuke Hatadani, Yasuko Kawahata, Akira Ishii
- 18:30 - 18:45** | **Computational Measures of Political Volatility** | Chico Camargo, Scott Hale, Helen Margetts, Peter John
- 18:45 - 19:00** | **Graph Semi-Supervised Learning through bridgeness biased random walks** | Sarah de Nigris, Matteo Morini

MONDAY 24/9 ROOM 4

- 11:00 - 11:15** | **Modeling the dynamics of the human consciousness by network analysis** | Marco Alberto Javarone, Srivas Chennu
- 11:15 - 11:30** | **Signals of Quality vs. Individual Recognition: A Model of the Tradeoffs in Assessment Strategies** | Elizabeth Hobson, Eleanor Harris
- 11:30 - 11:45** | **The origins of new technological domains** | Vilhelm Verendel, Francois Lafond, J. Doyne Farmer
- 11:45 - 12:00** | **Identifying Leverage Points for Biosecurity Risk Management Using Massive Online Games and Agent-Based Models** | Asim Zia, Christopher Koliba, Scott Merrill, Gabriela Bucini, Eric Clark, Susan Moegenburg, Serge Wiltshire, Julie Smith
- 12:00 - 12:15** | **The Language of Innovation** | Andrea Tacchella, Andrea Napoletano, Luciano Pietronero
- 12:15 - 12:30** | **Argument Exchange Dynamics in a Population with Divergent Mindsets** | Sven Banisch, Tat Dat Tran, Eckehard Olbrich
- 12:30 - 12:45** | **Empirical observations of ultraslow diffusion in languages: Dynamical statistical properties of word counts of already popular words** | Hayafumi Watanabe
- 12:45 - 13:00** | **The Power of Communities: A Text Classification Model with Automated Labelling Using Network Community Detection** | Minjun Kim, Hiroki Sayama
- 17:00 - 17:15** | **Unveiling the inter-relations between the urban streets network and its dynamic traffic flows** | Nimrod Serok, Shlomo Havlin, Orr Levy, Efrat Blumenfeld-Lieberthal
- 17:15 - 17:30** | **A continuous time evolution of a synthetic population** | Morgane Dumont, Johan Barthelemy, Timoteo Carletti
- 17:30 - 17:45** | **Urban Systems Diversity Measures** | Roberto Murcio, Clementine Cottineau, Elsa Arcaute, Michael Batty
- 17:45 - 18:00** | **A systematic comparison of interaction models for systems of cities** | Juste Raimbault
- 18:00 - 18:15** | **A new methodology for identification the formation of traffic bottlenecks in real-time** | Nirod Serok, Shlomo Havlin, Orr Levy, Efrat Blumenfeld-Lieberthal
- 18:15 - 18:30** | **Data-driven modelling of slum dynamics in Bangalore using an integrated discrete-choice agent-based framework** | Debraj Roy
- 18:30 - 18:45** | **Efficiency in road networks** | Carlos Molinero, Aberto Hernando
- 18:45 - 19:00** | **Using multifractality to reduce inequality in cities, scenarios on agent-based models** | Hadrien Salat, Sarah Wise

MONDAY 24/9 ROOM 5

- 11:00 – 11:30** | **Capturing Digital Signals for Health Research** | Yelena Mejova
- 11:30 – 11:45** | **Poverty traps in agro-ecological systems: dynamical systems approach**
| Sonja Radosavljevic
- 11:45 – 12:00** | **Mexican corruption network: Using journalistic big data to discover major political crimes** | Jesus Espinal-Enriquez, Guillermo de Anda-Jauregui, Rodrigo Garcia Herrera, Sergio Antonio Alcala-Corona, Sofia Ramirez, Issa Luna Pla
- 12:00 – 12:15** | **Flockworks: A Class of Dynamic Network Models for Face-to-Face Interactions** | Benjamin Maier and Dirk Brockmann
- 12:15 – 12:30** | **Agent-Based Modelling as Requirements-Engineering Tool for the As-If analysis of a Macro-Prudential Risk to the EU as a Jurisdiction**
| Aernout Schmidt and Kunbei Zhang
- 12:30 – 12:45** | **Computing the adaptive cycle** | Hannah Schrenk, Wolfgang Zu Castell
- 12:45 – 13:00** | **Revisiting the Stability of a Plant-Pollinator Mutualistic Community With and Without Phenology** | Claudia Payrato-Borras, Carlos Gracia-Lazaro, Laura Hernandez, Yamir Moreno
- 17:00 – 17:15** | **Effects of Microinsurance on Informal Safety Nets – A Model-Based Analysis** | Meike Will, Jurgen Groeneveld, Niklas Hase, Birgit Muller
- 17:15 – 17:30** | **Study of Primates Social Dynamics from Temporal Co-presence data**
| Valeria Gelardi, Alain Barrat, Nicolas Claidiere and Joel Fagot
- 17:30 – 17:45** | **Human Beings and Planet Earth in Deep Time: New Challenges for Modelling The Long-Term Evolution of the Global Human-Earth System**
| John Murphy, Joel Gunn, Maurits Ertsen, Jed Kaplan, Sarah Cornell, Carole Crumley, Vern Scarborough
- 17:45 – 18:00** | **Talent vs Luck: the Role of Randomness in Success and Failure**
| Alessandro Pluchino, Alessio Emanuele Biondo, Andrea Rapisarda
- 18:00 – 18:15** | **Multiscale renewable resource management by social pressure in social-ecological systems** | Andrew Ringsmuth, Steven Lade and Maja Schlueter
- 18:15 – 18:30** | **Collaborative hierarchy maintains cooperation in asymmetric games**
| Alberto Antonioni, Maria Pereda, Katherine Cronin, Marco Tomassini, Anxo Sanchez
- 18:30 – 18:45** | **How far does a shock event spreads on a network? Detecting causality on the salmon trade network** | Juan Carlos Rocha Gordo, Jessica Gephart
- 18:45 – 19:00** | **Oceanographic drivers of equity: multi-level links in the Humboldt squid fishery** | Laura Gabriele Elsler, Tim Haight Frawley, Gregory Lee Britton, William Gilly, Larry Crowder, Maja Schluter

MONDAY 24/9 ROOM 6

- 11:00 - 11:15** | **Economic Complexity Transition in Emerging Economies: A multi-criteria analysis of the case of Paraguay** | Arturo Gonzalez, Cecilia Llamosas, Eduardo Ortigoza, Gerardo Blanco
- 11:15 - 11:30** | **Does the centrality of a stock in a financial network is determinant factor of its future returns?** | Michail Vamvakaris, George Wang, Xiao-Jun Zeng
- 11:30 - 11:45** | **Dynamical variety of multifractal characteristics for financial data** | Rafal Kowalski, Stanislaw Drozd, Pawel Oswiecimka, Rafal Rak, Robert Gebarowski
- 11:45 - 12:00** | **A cluster driven log-volatility factor model: a deepening on the source of the volatility clustering** | Anshul Verma, Riccardo Junior Buonocore, Tiziana Di Matteo
- 12:00 - 12:15** | **The role of momentum factor on an investment portfolio formation** | Fernando Ferreira, Antonio Christian Silva, Antonio Fernando Crepaldi
- 12:15 - 12:30** | **The emergence of properties of the Japanese production network: How do listed firms choose their partners?** | Hazem Krichene, Yoshi Fujiwara, Abhijit Chakraborty, Yoshiyuki Arata, Hiroyasu Inoue, Masaaki Terai
- 12:30 - 12:45** | **Predicting Global Stock Crash Events Using a Complex System of Deep Neural Networks and an XGBOOST Aggregation Layer** | Nikolaos Vlachogiannakis, Anastasios Petropoulos, Vasilis Siakoulis, Vaggelis Stavroulakis
- 12:45 - 13:00** | **Economic polarization and transnational investment networks: a Central and Eastern European evidence** | Natalia Zdanowska
- 17:00 - 17:30** | **Economic Fitness and Complexity** | Luciano Pietronero
- 17:30 - 17:45** | **Systemic risk in insurance and reinsurance: Lessons from risk model homogeneity** | Torsten Heinrich, Juan Sabuco
- 17:45 - 18:00** | **The determination of exchange rates - a heterodox AB-SFC perspective** | Raquel Almeida Ramos, Federico Bassi, Dany Lang
- 18:00 - 18:15** | **The impact of technological development on environmental performance: an empirical analysis**
- 18:15 - 18:30** | **Best reply structure and equilibrium convergence in generic games** | Marco Pangallo, Torsten Heinrich, Luca Mungo, Doyne Farmer
- 18:30 - 18:45** | **A preliminary analysis on Bitcoin and Bitcoin Cash Networks: topology and dynamics** | Marco Alberto Javarone, Craig Wright
- 18:45 - 19:00** | **Heider balance in bilayer networks** | Piotr Gorski, Krzysztof Kulakowski, Przemyslaw Gawronski, Janusz Holyst

MONDAY 24/9 ROOM 7

- 11:00 – 11:15** | **Dynamical Genetics - Reaction Schemes Modelling Genetic Regulation**
| Markus Kirkilionis
- 11:15 – 11:30** | **Towards understanding the multi-level complexity of human health: from drug interactions to human sexual behavior** | Rion Brattig Correia, Ian Wood, Luis M. Rocha
- 11:30 – 11:45** | **A minimally invasive neurostimulation method for controlling abnormal synchronisation in the neuronal activity** | Malbor Asllani, Timoteo Carletti, Paul Expert
- 11:45 - 12:00** | **Loss of trans-regulation in breast cancer** | Jesus Espinal-Enriquez, Cristobal Fresno, Guillermo de Anda-Jauregui, Enrique Hernandez-Lemus
- 12:00 – 12:15** | **Viruses are Driving Agents in the Human Molecular System**
| Vandana Ravindran, David Robertson
- 12:15 – 12:30** | **Complex Healthcare Process Predictive Modelling for Decision Making and Process Control** | Sergey Kovalchuk, Oleg Metsker, Tesfamariam Abuhay, Anastasia Funkner, Alexey Yakovlev
- 12:30 – 12:45** | **Unified Mechanism of Atrial Fibrillation in a Simple Model**
| Max Falkenberg McGillivray, Andrew Ford, Anthony Li, Alberto Ciacci, Nicholas S. Peters, Kim Christensen
- 12:45 – 13:00** | **Optimal information networks: Application for data-driven integrated health in populations** | Joe Servadio, Matteo Convertino
- 17:00 – 17:30** | **Essential nodes and keystone species in the brain, ecosystems and social systems** | Hernan Makse
- 17:30 – 17:45** | **Simultaneous Emergence of Cooperative Response and Mutational Robustness in Gene Regulatory Networks** | Macoto Kikuchi, Shintaro Nagata
- 17:45 – 18:00** | **Complex network theory and methods to control the burden of cardiovascular disease: An exploratory study based on the CARDIA dataset** | Yorghos Apostolopoulos, Lazaros Gallos, Michael Lemke, Kristen Hassmiller Lich
- 18:00 – 18:15** | **Warnings and caveats in brain controllability** | Samir Suweis
- 18:15 - 18:30** | **Adaptive metabolic strategies explain diauxic shifts and promote species coexistence** | Leonardo Pacciani, Samir Suweis, Amos Maritan
- 18:30 - 18:45** | **Emergence of highly connected, non-redundant micro-RNAs in breast cancer transcriptional networks and their role in the control of biological functions** | Guillermo de Anda-Jauregui, Jesus Espinal-Enriquez, Diana Drago-Garcia, Enrique Hernandez-Lemus
- 18:45 – 19:00** | **Pattern-oriented Model for Exploring Systemic Toxicity and Biomarker Network Dynamics** | Matteo Convertino, Yang Liu, Joe Servadio

MONDAY 24/9 ROOM 8

- 11:00 - 11:15** | **Hydrodynamic Control of Chaos in a Belousov Zhabotinsky Oscillator**
| Florian Wodlei, Mihnea R Hristea
- 11:15 - 11:30** | **Balance and Frustration in Signed Networks**
| Samin Aref and Mark Wilson
- 11:30 - 11:45** | **Motion of a folding synthetic molecular motor in soft matter in light of the fluctuation theorems** | Victor Teboul, Gabriel Rajonson
- 11:45 - 12:00** | **Very long-ranged forces in highly charged colloidal dispersions at finite concentration** | Marcelo Lozada-Cassou, Alfredo Gonzalez-Calderon, Enrique Gonzalez-Tovar
- 12:00 - 12:15** | **Feedback induced stationary and oscillatory patterns in complex bistable networks** | Nikos Kouvaris, Julien Petit and Timoteo Carletti
- 12:15 - 12:30** | **Controlling the Time Evolution of Paths in a Hierarchical Heteroclinic Network** | Maximilian Voit and Hildegard Meyer-Ortmanns
- 17:00 - 17:15** | **Universal results for the outlier eigenpair of oriented random graphs**
| Fernando Metz and Izaak Neri
- 17:15 - 17:30** | **Can visibility network degree detect abrupt transitions in time series?**
| Avraam Charakopoulos and Theodoros Karakasidis
- 17:30 - 17:45** | **The Emergence of Weak Criticality in SOC systems** | Lorenzo Palmieri, Henrik Jeldtoft Jensen
- 17:45 - 18:00** | **Universality of non-normality in real complex networks**
| Malbor Asllani, Timoteo Carletti
- 18:00 - 18:15** | **Hopping in the Crowd to Unveil Network Topology** | Lorenzo Palmieri, Henrik Jeldtoft Jensen
| Malbor Asllani, Timoteo Carletti, Francesca Di Patti, Duccio Fanelli, Francesco Piazza
- 18:15 - 18:30** | **Graph grammars that generate networks of chemical reactions**
| Ivan Kryven, Yuliia Orlova
- 18:30 - 18:45** | **Tangled nature model of opinion dynamics: Polarization and Intermittency in scale-free networks** | Hardik Rajpal, Fernando Rosas, Henrik Jensen

MONDAY 24/9 ROOM 9

- 11:00 - 11:30** | **Complexity – Statistical Mechanical Characterisation and Fingerprints**
| Constantino Tsallis
- 11:30 - 11:45** | **I cite you, you cite me: The impact of reciprocated citations on scientific reputation** | Weihua Li, Tomaso Aste, Fabio Caccioli, Giacomo Livan
- 11:45 - 12:00** | **Complex Multilevel Events in Team Dynamics: Learning from Robot Soccer** | Ruggero Rossi, Jeff Johnson
- 12:00 - 12:15** | **Patterns of Collective User Behavior in Different Electoral Campaigns**
| Samuel Martin-Gutierrez, Juan Carlos Losada, Rosa M. Benito
- 12:15 - 12:30** | **Entropy-Based Null Models for the Analysis of Bipartite Networks**
| Guido Caldarelli, Mika Straka, Tiziano Squartini, Fabio Saracco
- 12:30 - 12:45** | **Determinants of public cooperation in multiplex networks** | Federico Battiston,
Matjaz Perc,
Vito Latora
- 12:45 - 13:00** | **Generalized Rich-Club Ordering in Networks** | Matteo Cinelli
- 17:00 - 17:15** | **A Simple Opinion Dynamics Model Suggesting an Intrinsically Negative Effect of Gossips** | Ilaria Bertazzi, Guillaume Deffuant, Sylvie Huet
- 17:15 - 17:30** | **Spatial-temporal Evolution of Scientific Collaborations**
| Enrico Maiorino, Kunpeng Mu, Matteo Chinazzi, Qian Zhang, Alessandro Vespignani
- 17:30 - 17:45** | **Modeling Public Mood and Emotions: Social Media Sentiment Near Major Events** | Krishna Bathina, Johan Bollen
- 17:45 - 18:00** | **Social Network Structure and Corruption in Local Government**
| Johannes Wachs, Taha Yasseri, Balazs Lengyel, Janos Kertesz
- 18:00 - 18:15** | **Entropy-based approach to missing-links prediction**
| Federica Parisi, Guido Caldarelli, Tiziano Squartini
- 18:15 - 18:30** | **Subgraphs and Motifs in a Dynamic Airline Network**
| Steve Lawford, Marius Agasse-Duval
- 18:30 - 18:45** | **Universal Scaling in Sports Ranking**
| Wei Li, Weibing Deng, Qiuping Alexandre Wang, Alain Bulou, Xu Cai
- 18:45 - 19:00** | **Optimal Interaction Network Topology for Effective Collective Response to External Perturbations** | Roland Bouffanais, David Mateo, Nikolaj Sorensen