


		September 6								
		Main Event								
08:00	Registrations							08:00		
08:45	Welcome (Auditorium)							08:45		
09:00	Keynote - Fabiana Zollo (Auditorium)							09:00		
09:15								09:15		
09:30								09:30		
09:45	Keynote - Alain Barrat (Auditorium)							09:45		
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10:30	Lightning 3 (Auditorium)							10:30		
10:45								10:45		
11:00	Coffee break							11:00		
11:15								11:15		
11:30	Behavioral Patterns and Social Structures 5 (Room 11)	Multimodal Networks and Urban Accessibility (Auditorium)	Complexity in Food Systems (Lab 1)	Complexity Approaches to Energy (Room 4)	Epidemiological Dynamics and Social Behavior (Room 5)	Behavioral Patterns and Social Structures Room 1-2-3)	Complex Networks 3 (Room 7-8)	Evolutionary Dynamics and Brain Networks (Room 9)	Disordered Systems and Critical Behaviors (Room 10)	11:30
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13:00	Lunch							13:00		
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14:00	AWARD DISCUSSION (Auditorium)							14:00		
14:15								14:15		
14:30	Keynote 9 - CCS SENIOR AWARD (Auditorium) Sponsored by Frontiers in Big Data & Frontiers in Complex Systems							14:30		
14:45								14:45		
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15:15	CONCLUSION (Auditorium)							15:15		
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Sept.6 Lighting 3**Auditorium**

- 10:30 Extending the moral machine experiment on large language models *Takemoto, Kazuhiro**
- 10:36 A universal framework for inclusive 15-minute cities *Bruno, Matteo*; Monteiro Melo, Hygor Piaget; Campanelli, Bruno; Loreto, Vittorio*
- 10:39 Market and price forecasting behaviour of Large Language Models compared to human subjects *del rio chanona, maria*; Pangallo, Marco; Hommes, Cars; Mishkin, Pamela*
- 10:42 A Markov Decision Model for Emotion Regulation *Vitanza, Eleonora*; Mocenni, Chiara*
- 10:45 Dynamic predictability and spatio-temporal contexts in human mobility *Poudyal, Bibandhan; Pacheco, Diogo F*; Oliveira, Marcos; Chen, Zexun; Barbosa, Hugo; Menezes, Ronaldo; Ghoshal, Gourab*

Chair: Federico Botta**Sept.6 Complex Networks 3****Room 7-8**

- 11:30 Enabling Viable Supply Networks with Cooperative-Distributed Local-Decentralised Control *Proselkov, Yaniv**
- 11:45 Modelling of three-component complex conflict with decision-making, host population support and resource redistribution *Shelyag, Sergiy*; McKerral (Fisher), Jody; Zuparic, Mathew; Francis, Michael; McLennan-Smith, Timothy*
- 12:00 Endogenous labour flow networks and the skills evolution of the UK labour market *Fair, Kathryn R*; Meine, David; Guerrero, Omar*
- 12:15 Do skills predict labour mobility? Delving deeper into the drivers of job switches *Kessler, Zachary; Fair, Kathryn R*; Guerrero, Omar*
- 12:30 Exploring the Impact of Spatial Community Structure On Extremism in an Adaptive Spatial Social Network Model *Bullock, Seth**

Chair: Sofia Teixeira**Sept.6 Behavioral Patterns and Social Structures 4****Room 1-2-3**

- 11:30 The role of context in the bursty temporal dynamics of online activities on Facebook *Deng, Dongning*; Kmetty, Zoltán; Koltai, Julia*
- 11:45 Patterns of Trust in News. Disagreement or disinformation? *Lo Sardo, Donald Ruggiero*; Brugnoli, Emanuele; Loreto, Vittorio; Ubaldi, Enrico; Gravino, Pietro*
- 12:00 Quantifying social stereotypes toward older drivers in Japan using social media posts *Nakanishi, Akito*; Sano, Yukie; Ichikawa, Masao*
- 12:15 Cross-platform impact of social media algorithmic adjustments on public discourse *Gravino, Pietro*; Lo Sardo, Donald Ruggiero; Brugnoli, Emanuele*
- 12:30 Social Media Polarization Mirrors Shifts in Pakistani Political Alliances *Baqir, Anees; Galeazzi, Alessandro*; Drocco, Andrea; Zollo, Fabiana*
- 12:45 Who is driving the conversation? Analysing the nodality of British MPs and journalists on online platforms *Chakraborty, Sukankana*; Castro-Gonzalez, Leonardo; Margetts, Helen; Rajpal, Hardik; Guariso, Daniele; Bright, Jonathan*

Chair: Gourab Ghoshal**Sept.6 Behavioral Patterns and Social Structures 5****Room 11**

- 11:30 Network topology effects on the social circle polls. *Palermo, Giovanni*; Gravino, Pietro; Prevedello, Giulio; Brugnoli, Emanuele; Lo Sardo, Donald Ruggiero; Loreto, Vittorio*
- 11:45 Minor extensions of the logistic equation for growth curves of word counts on online media: parametric observation of diversity of growth in societ *Watanabe, Hayafumi**
- 12:00 Behavioural Contagion in Human and Artificial Multi-Agent Systems: A Computational Modeling Perspective *Karimian, Maryam M**
- 12:15 A spectrum of complexity uncovers Dunbar's number and other leaps in social structure *Saavedra, Martin; Mira, Jorge; Muñuzuri, Alberto P.; Seoane, Luis F**
- 12:30 Trade-off between quality and speed of collective discovery processes: from social simulations to empirical evidences with the Nobel Game *Chavalarias, David*; Segovia, Jose; Panahi, Mazyar*

Chair: Gerardo Iniguez**Sept.6 Disordered Systems and Critical Behaviors****Room 10**

- 11:30 Local sign stability as a predictor for stability in complex systems *Valigi, Pietro; Neri, Izaak*; Cammarota, Chiara*
- 11:45 Cluster-Driven Momentum Portfolios *Bradley, Joseph C*; Di Matteo, Tiziana; Mrazik, Matus*
- 12:00 Spectral theory of multivariate Ornstein-Uhlenbeck reversible processes *Barucca, Paolo**

- 12:15 Analysis of critical behaviour using social inequality indices *Biswas, Soumyajyoti**
- 12:30 First-passage on disordered intervals *Holehouse, James*; Redner, Sidney*
- 12:45 Nonlinear responses and tipping in strongly fluctuation-driven systems *Börner, Georg*; Thümler, Moritz; Schröder, Malte; Timme, Marc*
Chair: Carlos Gershenson

Sept.6 Complexity in Food Systems

Lab 1

- 11:30 Collaborative filtering and food pairing *Palermo, Giovanni*; Caprioli, Claudio; Alhora, Giambattista*
- 11:45 Adaptive Shock Compensation in the Multi-layer Network of Global Food Production and Trade *Baum, Sophia*; Laber, Moritz; Yang, Liuhuaying; Thurner, Stefan; Klimek, Peter*
- 12:00 Characterizing Restaurant Nutritional Quality Across the United States *Seo, DongHyeon*; Burghardt, Keith; Abeliuk, Andrés; Horn, Abigail*
- 12:15 Modeling Racial/Ethnic Disparities in Diet: An Agent-Based Approach to Understanding Diet Dynamics in Philadelphia *Useche, Andres F*; Stankov, Ivana; Langellier, Brent*
- 12:30 Replanting unproductive palm oil with smallholder plantations can help achieve Sustainable Development Goals in Sumatra, Indonesia *Fosch, Ariadna*; Ferraz de Arruda, Guilherme; Aleta, Alberto; Descals, Adrià; Gaveau, David; Morgans, Courtney; Rintanen, Truly; Struebig, Matthew; Meijaard, Erik; Moreno, Yamir*
Chair: Elisa Omodei

Sept.6 Evolutionary Dynamics and Brain Networks

Room 9

- 11:30 Higher-order connectomics of human brain function reveals local topological signatures of task decoding, individual identification, and behavior *Santoro, Andrea*; Battiston, Federico; Lucas, Maxime; Petri, Giovanni; Amico, Enrico*
- 11:45 Cross-frequency coupling in the brain dynamics: Causality vs. lead-lag relationship *Palus, Milan*; Arinyo-i-Prats, Andreu; Lopez-Madrone, Victor*
- 12:00 Jensen–Shannon Complexity for measuring deterministic properties of mouse EEG *Koyama, Kazuki*; Sakaguchi, Masanori; Ohnishi, Takaaki*
- 12:15 Information transfer as an evolutionary feed for emergence of critical brain network *Roudakian, Kamyar*; Kabakcioglu, Alkan*
- 12:30 Approximate symmetries of complex networks *Hartman, David; Pidnebesna, Anna; Pokorna, Aneta; Hlinka, Jaroslav**
- 12:45 Homological cycles of Functional Connectivity delimit highly synergistic brain areas *Poetto, Simone*; Petri, Giovanni; Neri, Matteo; Brovelli, Andrea*
Chair: Marilyn Gatica

Sept.6 Epidemiological Dynamics and Social Behavior

Room 5

- 11:30 Getting the Flu in El Farol: Exploring Epidemiological Dynamics in a Social Dilemma *Bertolotti, Francesco*; Pasquino, Luca; Kadera, Niccolò; Mari, Luca*
- 11:45 Dynamics of vaccine hesitancy analysis using social network and implications on virus propagation *Achitouv, Ixandra*; Chavalarias, David*
- 12:00 News propagation on Twitter - analysis of a diverse dataset does not show evidence of difference in fake news spread *Vranić, Ana*; Almeida, Paulo; Reis, José; Sa, Joana G*
- 12:15 Mapping emotional landscapes during the COVID-19 pandemic *Balsamo, Duilio*; Lucchini, Lorenzo; Bianchi, Federico; Hovy, Dirk; Melegaro, Alessia; Balbo, Nicoletta*
- 12:30 A family of distance backbones that preserves spreading dynamics and centrality ranks *Pereira, Miguel B.*; Costa, Felipe X; Rocha, Luis M*

Chair: Fabiana Zollo

Sept.6 Multimodal Networks and Urban Accessibility

Auditorium

- 11:30 The role of transport systems in housing insecurity: a mobility-based analysis *Iyer, Nandini*; Barbosa, Hugo; Menezes, Ronaldo*
- 11:45 Novel Phase Transition on Charging Networks of Electric Vehicles *Tanizawa, Toshihiro*; Goto, Hayato; Yoshida, Hiroaki*
- 12:00 Access to Opportunities and Car Dependency in Urban Environments *Campanelli, Bruno*; Marzolla, Francesco; Bruno, Matteo; Monteiro Melo, Hygor Piaget; Loreto, Vittorio*
- 12:15 Geometry of optimal multilayer transportation networks *Marquis, Ulysse P*; Bontorin, Sebastiano; Gallotti, Riccardo*
- 12:30 Complex dynamics in multimodal networks *Lebacque, Jean-Patrick*; Khoshyaran, Megan*
- 12:45 Planning the Electric Vehicle Transition by Integrating Spatial Information and Social Networks *Wu, Jiaman*; González, Marta C.; Salgado, Ariel*

Chair: Juste Raimbault