



Room 4

	September 2	September 3	September 4	September 5	September 6
	Satellites	Satellites	Main Event	Main Event	Main Event
08:00	Registrations	Registrations	Registrations	Registrations	Registrations
08:45	Welcome (Auditorium)	Welcome (Auditorium)	Welcome (Auditorium)	Welcome (Auditorium)	Welcome (Auditorium)
09:00	Invited - Brooke Foucault Welles (Auditorium)	Invited - Richard Blythe (Auditorium)	Keynote - Sandy Pentland (Auditorium) - Sponsored by EPJ Data Science & Applied Network Science	Keynote - Andrea Bamberg Migliano (Auditorium)	Keynote - Fabiana Zollo (Auditorium)
09:15					
09:30					
09:45	Complex Systems & Collective Intelligence (Room 4)	Criminal Complexity (Room 4)	Keynote - Nina Fefferman (Auditorium)	Keynote - Gourab Ghoshal (Auditorium)	Keynote - Alain Barrat (Auditorium)
10:00					
10:15					
10:30					
10:45			Lightning 1 (Auditorium)	Lightning 2 (Auditorium)	Lightning 3 (Auditorium)
11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:15					
11:30	Complex Systems & Collective Intelligence (Room 4)	Criminal Complexity (Room 4)	Financial Complexity, and Economic Networks 1 (Room 4)	Financial Complexity, and Economic Networks 3 (Room 4)	Complexity Approaches to Energy (Room 4)
11:45					
12:00					
12:15					
12:30					
12:45					
13:00	Lunch	Lunch	CCS Council Meetings ONLY (Room 4)	Lunch	Lunch
13:15					
13:30					
13:45					
14:00	Invited - Cynthia S. Q. Siew (Auditorium)	Invited - Luca Pappalardo (Auditorium)	Keynote - Tomaso Aste (Auditorium)	Keynote - Suzy Moat (Auditorium)	AWARD DISCUSSION (Auditorium)
14:15					
14:30			Invited - Karoline Wiesner (Auditorium)	Invited - Giulio Cimini (Auditorium)	Keynote 9 - CCS SENIOR AWARD (Auditorium) Sponsored by Frontiers in Big Data & Frontiers in Complex Systems
14:45					
15:00	Complex Systems & Collective Intelligence (Room 4)	Criminal Complexity (Room 4)	Financial Complexity, and Economic Networks 2 (Room 4)	Machine Learning (Room 4)	CONCLUSION (Auditorium)
15:15					
15:30					
15:45					
16:00					
16:15	Coffee break	Coffee break	Coffee break	Coffee break	
16:30					
16:45	Complex Systems & Collective Intelligence (Room 4)	Criminal Complexity (Room 4)	Financial Complexity, and Economic Networks 2 (Room 4)	Machine Learning (Room 4)	
17:00					
17:15					
17:30					
17:45			Demystifying publishing for Early Career Researchers (Auditorium) Sponsored by PLOS COMPLEX SYSTEMS	Poster Session & Cocktails Sponsored By JPhys COMPLEXITY (The Sanctuary)	
18:00					
18:15	yrCSS Panel (Auditorium)				
18:30					
18:45					
19:00			Gala Dinner (Holland Hall)		
19:15					
19:30					
19:45					

Sept.4 Financial Complexity, and Economic Networks 1**Room 4**

- 11:30 Towards a statistical understanding of the evolution of production networks on the firm level
*Reisch, Tobias**; *Borsos, András*; *Thurner, Stefan*
- 11:45 The Impact of AI on the Labour Market from the perspective of Economic Complexity
*Fenoaltea, Enrico Maria**
- 12:00 Shock propagation in multi-product-firm production networks
*Kreis, Maik**; *Diem, Christian*; *Schueller, William*; *Fialkowski, Jan*; *Thurner, Stefan*
- 12:15 A Network Approach for supply chain due diligence risk assessment in the EU
*Hurt, Jan**; *Ledebur, Katharina*; *Meyer, Birgit*; *Friesenbichler, Klaus*; *Gerschberger, Markus*; *Thurner, Stefan*; *Klimek, Peter*
- 12:30 Economic shocks in reconstructed firm-to-firm networks from input-output data
Luzzati, Davide Samuele; *Ialongo, Leonardo Niccolò**; *Fagiolo, Giorgio*; *Garlaschelli, Diego*
- 12:45 Mitigating systemic risk in production networks by local rewiring
*Zelbi, Giacomo**; *Thurner, Stefan*

Chair: *Paolo Barucca***Sept.4 Financial Complexity, and Economic Networks 2****Room 4**

- 15:30 Source of multiscaling in rough volatility models
*Casaburi, Pasquale**; *Di Matteo, Tiziana*
- 15:45 Synthetic Financial Time Series by Diffusion Models
*Mizuno, Takayuki**; *Takahashi, Tomonori*
- 16:00 Venture Capital: how to become a successful investor
*Zava, Marta**
- 16:45 Mapping critical raw materials in green technologies
*Sbardella, Angelica**; *de Cunzio, Francesco*; *Consoli, Davide*; *Perruchas, Francois*
- 17:00 Calibration of a Novel Large-Scale Economic Agent-based Model
*Wiese, Samuel**; *Kaszowska-Mojca, Jagoda*; *Dyer, Joel*; *Moran, Jose*; *Pangallo, Marco*; *Calinescu, Anisoara*; *Farmer, Dooyne*

Chair: *Maria del Rio-Chanona***Sept.5 Financial Complexity, and Economic Networks 3****Room 4**

- 11:30 The rise and fall of WallStreetBets: social roles and opinion leaders across the GameStop saga
*Mancini, Anna**; *Cimini, Giulio*; *Di Clemente, Riccardo*; *Desiderio, Antonio*; *Palermo, Giovanni*
- 11:45 Prediction of TV weekly sales using time series decomposition
*Yamashita Rios de Sousa, Arthur Matsuo**; *Ozaki, Junichi*; *Shida, Yohei*; *Wu, Qianyun*; *Yixuan, Zheng*; *Zhong, Zhihua*; *Masukawa, Rie*; *Jiang, Jiwei*
- 12:00 Modeling Negative Sentiment Diffusion in Financial Markets via Reddit Interactions: Integrating Deep Learning and Network Dynamics
*Baratto, Marta**; *Paletto, Lorenzo*
- 12:15 Networked Truths: Understanding the Statistical Patterns of Fact-Checkers' Debunks
Bertani, Anna A; *Kadkhoda, Kaveh**; *Mazzeo, Valeria*; *Szymkiewicz, Aleksy*; *Gallotti, Riccardo*
- 12:30 A novel Sparse Graphical Model for optimizing portfolio assets allocation
*Riso, Luigi**; *Zoia, Maria Grazia*; *Di Matteo, Tiziana*

Chair: *Hiroko Yamano***Sept.5 Machine Learning****Room 4**

- 15:30 Non-Spatial Hash Chemistry as a Minimalistic Open-Ended Evolutionary System
*Sayama, Hiroki**
- 15:45 The Spontaneous Emergence of Social Norms in Societies of Large Language Model-based Agents
*Flint Ashery, Ariel**; *Aiello, Luca Maria*; *Baronchelli, Andrea*
- 16:00 Unpacking heterogeneities of Swarm Intelligence using Network Science
Lira da Silva, Rodrigo Cesar; *Macedo, Mariana**; *Siqueira, Hugo Valadares*; *Menezes, Ronaldo*; *Bastos-Filho, Carmelo J. A.*
- 16:45 From Raman spectra of thyroid samples to carcinoma diagnosis through eXplainable Artificial Intelligence
*Bellantuono, Loredana**; *Tommasi, Raffaele*; *Di Gioacchino, Michael*; *Pantaleo, Ester*; *Amoroso, Nicola*; *Crucitti, Pierfilippo*; *Longo, Filippo*; *Monaco, Alfonso*; *Morales, Andrés*; *Milone, Roberto*; *Andino, Tiffani*; *Chiaromonte, Stefano*
- 17:00 Emergence of Consensus among Large Language Models
*De Marzo, Giordano**
- 17:15 LLMs Are Zero-Shot Next-Location Predictors
*Beneduce, Ciro**; *Luca, Massimiliano*; *Lepri, Bruno*

Chair: *Diogo Pacheco*