



Room 9

	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	FRIENDS (Room 9)	Self-Organization in Complex Systems (Room 9)	Keynote - Nina Fefferman (Auditorium)	Keynote - Gourab Ghoshal (Auditorium)	Keynote - Alain Barrat (Auditorium)
10:00					
10:15					
10:30			Lightning 1 (Auditorium)	Lightning 2 (Auditorium)	Lightning 3 (Auditorium)
10:45					
11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:15					
11:30	FRIENDS (Room 9)	Self-Organization in Complex Systems (Room 9)	Science of Science (Room 9)	Complex Systems Applications (Room 9)	Evolutionary Dynamics and Brain Networks (Room 9)
11:45					
12:00					
12:15					
12:30					
12:45					
13:00	Lunch	Lunch	Lunch	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					Keynote 9 - CCS SENIOR AWARD (Auditorium) Sponsored by Frontiers in Big Data & Frontiers in Complex Systems
14:45	FRIENDS (Room 9)	Self-Organization in Complex Systems (Room 9)	Invited - Karoline Wiesner (Auditorium)	Invited - Giulio Cimini (Auditorium)	
15:00					
15:15					CONCLUSION (Auditorium)
15:30					
15:45					
16:00			Complex Human Systems (Room 9)	Cognition and Complexity in Social Systems (Room 9)	
16:15	Coffee break	Coffee break	Coffee break	Coffee break	
16:30					
16:45	FRIENDS (Room 9)	Self-Organization in Complex Systems (Room 9)	Complex Human Systems (Room 9)	Cognition and Complexity in Social Systems (Room 9)	
17:00					
17:15					
17:30					
17:45					
18:00			Demystifying publishing for Early Career Researchers (Auditorium) Sponsored by PLOS COMPLEX SYSTEMS	Poster Session & Cocktails Sponsored By JPhys COMPLEXITY (The Sanctuary)	
18:15					
18:30	yrCSS Panel (Auditorium)				
18:45					
19:00					
19:15					
19:30			Gala Dinner (Holland Hall)		
19:45					

Sept.4 Science of Science

- 11:30 From Revolution to Research: Interplay Between Funding, Migration, and Scholarly Attention post-Arab Spring
- 11:45 Is disruption decreasing, or is it accelerating?
- 12:00 Gender representation and homophily as barriers to women's career in science
- 12:15 Temporal glass ceiling: Gender disparities in the dissemination and acquisition of scientific knowledge
- 12:30 The Role of Science in the Universe of Conspiracy Theories
- 12:45 AI for neuroscience and neuroscience for AI: how AI and neuroscience are growing together

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Asgari, Yasaman; Zhou, Hongyu; Rezapour, Shadi; Villacastin, Juven; Kadir Ozer, Ozgur; Sloane, Mary Ellen; Bovet, Alexandre*

*Valverde, Sergi**

Jaramillo, Ana Maria; Macedo, Mariana; Oliveira, Marcos; Karimi, Fariba; Menezes, Ronaldo*

Zappalà, Chiara; Gallo, Luca; Bachmann, Jan; Battiston, Federico; Karimi, Fariba*

Alvarez Zuzek, Lucila G; Bertani, Anna; Baqir, Anees; Venturini, Tommaso; Traag, Vincent; Gallotti, Riccardo*

Fontaine, Sylvain; Gargiulo, Floriana*

Chair: Mohsen Mosleh

Sept.4 Complex Human Systems

- 15:30 Exploratory Network Modelling of Complex Human Systems in Time-Use Research: Results from Wave 1 of the Singapore NCSS-NAK 360 Panel Study
- 15:45 A theoretical framework for studying culture as a complex adaptive system
- 16:00 Complex systems analysis of subjective well-being
- 16:45 Using measures from complexity to predict transitions towards depression
- 17:00 A Reciprocal-Practice-Skill Model of Self-Regulated Learning

Room 9

Ho, Han Sheng; Ortega, Emily; Chan, Bryan Yu Xiu; Tay, Azriel Xunkai; Tang, Sabrina Seng Ooi*

*Jansson, Fredrik**

Dignum, Eric; Roy, Debraj; Gerrits, Lasse*

*George, Sandip V**

Laskar, Pritam; van der Maas, Han*

Chair: Nandini Iyer

Sept.5 Complex Systems Applications

- 11:30 Tweet2Geo: from locations extraction to the network of international interests
- 11:45 Mining higher-order triadic interactions in gene-expression data
- 12:00 Modeling lead-acid batteries lifecycle performance using rhoDCCA in the automotive context
- 12:15 Path dependency in the evolution of grammar: a network analysis of linguistic traits
- 12:30 Quantifying Kuramoto coupling across inherent brain networks: Application to EEG data in major depressive disorder
- 12:45 Language distances and geographical proximity through the lens of syntactic variation: An information-theoretic approach

Room 9

Orsanigo, Veronica; Bontorin, Sebastiano; Louf, Thomas; Leonardelli, Elisa; Palmero Aprosio, Alessio; Tonelli, Sara; Gallotti, Riccardo*

Niedostatek, Marta; Baptista, Anthony; Sanchez-Garcia, Ruben J; MacArthur, Ben; Yamamoto, Jun; Bianconi, Ginestra; Kurths, Jürgen*

Murari, Thiago B; Moret, Marcelo A; Costa, Roberto*

Jon-And, Anna; Domínguez-García, Virginia; Ranjan, Ravi; Bücker, Joris; Ang, Bernise; Skirgård, Hedvig; Jansson, Fredrik; Michaud, Jérôme*

*Ghosh, Anupam**

Sanchez, David; De Gregorio, Juan; Toral, Raul*

Chair: Alex Arenas

Sept.5 Cognition and Complexity in Social Systems

- 15:30 Impact of cognitive biases on collective reinforcement learning and application to sustainability transitions
- 15:45 Exploitation and exploration in text evolution. Quantifying planning and translation flows during writing
- 16:00 Unfreezing Opinions: Understanding Pretest Effects in the Ising Attitude Model
- 16:45 Revisiting Word Order in the Left Periphery: A Dynamic Model Inspired by Ecological Systems

Room 9

Bergerot, Clemence; Barfuss, Wolfram; Romanczuk, Pawel*

Lo Sardo, Donald Ruggiero; Gravino, Pietro; Loreto, Vittorio; Cuskley, Christine*

Smal, Iris M; Dalege, Jonas; Alexi, Xanthippi; van der Maas, Han*

*Callegari, Elena**

Chair: Cynthia S. Q. Siew

Sept.6 Evolutionary Dynamics and Brain Networks

- 11:30 Higher-order connectomics of human brain function reveals local topological signatures of task decoding, individual identification, and behavior
- 11:45 Cross-frequency coupling in the brain dynamics: Causality vs. lead-lag relationship
- 12:00 Jensen-Shannon Complexity for measuring deterministic properties of mouse EEG
- 12:15 Information transfer as an evolutionary feed for emergence of critical brain network
- 12:30 Approximate symmetries of complex networks
- 12:45 Homological cycles of Functional Connectivity delimit highly synergistic brain areas

Room 9

Santoro, Andrea; Battiston, Federico; Lucas, Maxime; Petri, Giovanni; Amico, Enrico*

Palus, Milan; Arinyo-i-Prats, Andreu; Lopez-Madrone, Victor*

Koyama, Kazuki; Sakaguchi, Masanori; Ohnishi, Takaaki*

Roudakian, Kamyar; Kabakcioglu, Alkan*

*Hartman, David; Pidnebesna, Anna; Pokorna, Aneta; Hlinka, Jaroslav**

Poetto, Simone; Petri, Giovanni; Neri, Matteo; Brovelli, Andrea*

Chair: Marilyn Gatica