



Room 11

	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	AMETHYST (Room 11)	Complexity in Economics & Finance (Room 11)	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	AMETHYST (Room 11)	Complexity in Economics & Finance (Room 11)	Complex Behaviors in Animal Populations (Room 11)	Complexity and Sustainability in Ecological Systems 1 (Room 11)	Behavioral Patterns and Social Structures 5 (Room 11)
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	AMETHYST (Room 11)	Complexity in Economics & Finance (Room 11)	Invited - Karoline Wiesner (Auditorium)	Invited - Giulio Cimini (Auditorium)	CONCLUSION (Auditorium)
15:00					
15:15					
15:30					
15:45			Robustness and Complexity in Biological Networks (Room 11)	Complexity and Sustainability in Ecological Systems 2 (Room 11)	
16:00					
16:15	Coffee break	Coffee break	Coffee break	Coffee break	
16:30					
16:45	AMETHYST (Room 11)	Complexity in Economics & Finance (Room 11)	Robustness and Complexity in Biological Networks (Room 11)	Complexity and Sustainability in Ecological Systems 2 (Room 11)	
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					
19:15					
19:30			Gala Dinner (Holland Hall)		
19:45					

Sept.4 Complex Behaviors in Animal Populations**Room 11**

- 11:30 Scary movie: Behavioural Rules Governing Escape Decisions in Wild Fish Shoals *Neven, Sara Linde*; Martin, Benjamin; de Roos, André*
- 11:45 Leveraging the power of higher-order networks to study animal communication *Silk, Matthew*; Iacopini, Iacopo; Foote, Jennifer; Derryberry, Liz; Fefferman, Nina*
- 12:00 Temnothorax ants use recruitment to achieve beyond their individual capabilities *Ohlinger, Bradley D**
- 12:15 Scaling-up interaction signal dynamics to understand population-level spatial organization *Colombo, Eduardo H**

Chair: Maxime Lucas**Sept.4 Robustness and Complexity in Biological Networks****Room 11**

- 15:30 Assessing robustness of microbiological behaviours using agent-based model *Proverbio, Daniele*; Reginato, Damiano; Gallo, Luca; Passalacqua, Barbara; Giordano, Giulia*
- 15:45 Robustness and Complexity of Directed and Weighted Metabolic Hypergraphs *Traversa, Pietro*; Ferraz de Arruda, Guilherme; Vazquez, Alexei; Moreno, Yamir*
- 16:00 Investigating the Effect of Noise on the Density Classification Task for Various Cellular Automaton Rules *Challa, Annajirao; Hao, Duxiao*; Rozum, Jordan; Rocha, Luis M*
- 16:45 Protein self-similarity and protein function *Moret, Marcelo A**
- 17:00 Network Modeling of Endothelial-to-Mesenchymal Transition (EndMT) caused by Dengue Virus *Fernández, Nelson*; Gershenson, Carlos; Camacho, Paula*
- 17:15 In-silico model of the pregnant uterus as a network of oscillators under sparse adaptive control *Ferro, Giuseppe M*; Sornette, Didier; Somazzi, Andrea*

Chair: Sergi Valverde**Sept.5 Complexity and Sustainability in Ecological Systems 1****Room 11**

- 11:30 Modelling higher-order interactions using agent based models *Van Giel, Thomas*; Baetens, Jan; De Baets, Bernard; Daly, Aisling*
- 11:45 Universal spatial properties of coral reefs *Giménez-Romero, Àlex*; Matías, Manuel A.; Duarte, Carlos*
- 12:00 Spatial self-organisation of microbial decomposer communities *Kaiser, Christina*; Dieckmann, Ulf; Evans, Sarah; Guseva, Ksenia; Widder, Stefanie*
- 12:15 Stable coexistence in indefinitely large systems of competing species *Niek Mooij, Mara Baudena, Anna von der Heydt, Ivan Kryven**
- 12:30 Game theory to implement conservation strategies on marine life *Buenvoron, Gorka**
- 12:45 Structural controllability of cascading regime shifts *Rocha, Juan C*; Crépin, Anne-Sophie*

Chair: Nina Fefferman**Sept.5 Complexity and Sustainability in Ecological Systems 2****Room 11**

- 15:30 Complexity Issues in Sustainability: Time to Focus on Overall System Outcomes Rather Than Simplistic Individual Targets *Fisher, Len R*; Gross, Thilo; Hillebrand, Helmut; Sandberg, Anders; Sayama, Hiroki*
- 15:45 From dense to sparse - Optimal Transport in a random graph framework *Buffa, Lorenzo*; Cimini, Giulio; Mazzilli, Dario; Patelli, Aurelio; Saracco, Fabio*
- 16:00 Ranking species in complex ecosystems through nestedness maximization *Mariani, Manuel Sebastian; Mazzilli, Dario; Patelli, Aurelio*; Morone, Flaviano*
- 16:45 On the structure of species-function participation in multilayer ecological networks *Cuevas Blanco, Mar**
- 17:00 Network theory for ecosystem services research *Casali, Ylenia**

Chair: Javier Borge Holthoefer**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