

International Workshop “Complex networks, from socio-economic systems to biology and brain”, Lipari 2017

Program

Saturday, the 9th of September

Morning Session

08.45 – 09.15 Registration

09.15 – 09.30 Opening: Prof. Alfredo Ferro (Univ. di Catania, Italy)

09.30 – 10.00 Sebastiano Vigna (Univ. di Milano, Italy)
“Axioms for centrality”

10.00 – 10.30 Edoardo Galimberti (Univ. di Torino and ISI Foundation, Turin, Italy),
“Core Decomposition and Densest Subgraph in Multilayer Networks”

10.30 – 11.00 Coffee Break

11.00 – 11.30 Manuel Sebastian Mariani (Univ. de Fribourg, Switzerland),
“Identification of significant papers and patents: citation count or PageRank?”

11.30 – 12.00 Marcella Tambuscio (Univ. di Torino, Italy),
“Misinformation, fact-checking and gullible communities”

12.00 - 12.30 Alfonso Semeraro (Univ. di Torino, Italy),
“Network analysis of behavioral patterns in financial transactions”

Afternoon Session

Social event: Boat trip of Panarea and Stromboli islands (14.15 – midnight)

Sunday, the 10th of September

Morning Session

09.30 – 10.00 José Fernando Mendes (Univ. de Aveiro, Portugal),
“A unified approach to percolation processes on multiplex networks”

10.00 – 10.30 Vinko Zlatic (Inst. Rusjer Boskovic, Zagreb, Croatia),
“Unexpected properties of color avoiding percolation”

10.30 – 11.00 Coffee Break

11.00 – 11.30 Diego Garlaschelli, (Lorentz Inst., Leiden Univ, Netherland)
“What can and what cannot be reconstructed of a network from local information”

11.30 – 12.00 Dario Mazzilli (Univ. “Sapienza”, Rome, Italy),
“Countries' technological development: new methods and data”

12.00 - 12.30 Aurelio Patelli (ISC – CNR, Rome, Italy)
“The innovation in the developed nations: the interplay between Science, Technology and Production”

Afternoon Session

Free afternoon

Monday, the 11th of September

Morning Session

09.30 – 10.00 Ciro Cattuto (ISI Foundation, Turin, Italy),
“Social networks from wearable sensors”

10.00 – 10.30 Fabrizio De Vico Fallani (INRIA, Paris, France),
“Filtering information in complex brain networks”

10.30 – 11.00 Coffee Break

11.00 – 11.30 Giovanni Micale (Univ. di Catania, Italy),
“Analytical Methods for Finding Significant Colored Motifs on Multigraphs”

11.30 – 12.00 Marialisa Scatà (Univ. di Catania, Italy),
“Data and Knowledge Integration Science for ICT: Epidemic and Social Contagion Modeling”

12.00 – 12.30 Alessandro Di Stefano (Univ. di Catania, Italy),
“Data and Knowledge Integration Science for ICT: Evolutionary Game Theory and Multiplexity”

Afternoon Session

14.30 – 15.00 Roded Sharan (Tel Aviv Univ., Israel),
“A network-based approach to elucidate neurodegenerative disease mechanisms”

15.00 – 15.30 Francesco Bonchi (ISI, Turin, Italy),
“To Be Connected, or Not to Be Connected: That is the Minimum Inefficiency Subgraph Problem”

15.30 – 16.00 Daniele Marinazzo (Ghent Univ., Belgium),
“Visibility graphs for fMRI data: multiplex temporal graphs and their modulations across resting state networks”

16.00 – 16.30 Catalina Obando Forero (INRIA, Paris, France),
“Exponential random graph model for brain networks”

Tuesday, the 12th of September

Morning Session

09.30 – 10.00 Stefan Thurner (Medical Univ. of Wien, Austria),
“How statistics appears in path dependent processes - all of it - from Zipf to Gauss”

10.00 - 10.30 Andrea Pagnani (Politecnico di Torino, Italy),
“Maximum-entropy description of Repertoire Sequencing data”

10.30 – 11.00 **Coffee Break**

11.00 – 11.30 Hernan Makse (Univ. City College, NY, USA)
“Finding essential nodes for integration in the brain using network optimization theory”

11.30 – 12.00 Angelo Bifone (IIT, Rovereto, Italy),
“Modular organization of functional connectivity networks in the healthy and diseased brain”

12.00 – 12.30 Andrea Gabrielli (ISC – CNR; Rome, Italy),
“Organization and hierarchy of the human functional brain network lead to a chain-like core”

12.30 – 13.00 Johanna Meijer (LUMS, Leiden Univ., Netherland),
“Emerging properties of the brain’s clock at the neuronal network level”

Afternoon Session

Social event: boat trip to Vulcano island and social dinner

Wednesday, the 13th of September

Morning Session

10.00 – 10.30 Rodrigo Pereira Rocha (Univ. di Padova, Italy),
“Subject variability in brain functional activity in healthy and stroked conditions”

10.30 – 11.00 Daniela Paolotti (ISI Foundation, Turin, Italy),
“Digital traces and participation for forecasting the flu”

11.00 – 11.30 **Coffee Break**

11.30 – 12.00 Sebastiano Stramaglia (Univ. di Bari, Italy),
“Multiscale Causality Analysis”

12.00 - 12.30 Jeremy Guillon (INRIA, Paris, France),
“Loss of inter-frequency brain hubs in Alzheimer’s disease”

Afternoon Session

14.30 – 16.00 General Discussion and Closing Remarks

Sponsors



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