



# International School on Informatics and Dynamics in Complex Networks

University of Catania, 15 -19 October 2018

## Workshop on Informatics and Dynamics in Complex Networks

### List of Presentations

#### Session 1 October 16, 2018 14:00 – 15:30

**Baumann Fabian**, *Activity model for opinion dynamics*

**Caliò Antonio**, *Friend-Foe Dynamic Linear Threshold Models*

**Sajad Ahmad Sheikh**, *Complex Network in a Disk with Fixed Number of Nodes*

**Tyloo Melvyn**, *Robustness of Synchrony in Complex Networks and Generalized Kirchhoff Indices*

**Cavallaro Lucia**, *Graph vulnerability variation under probabilistic node failure*

#### Session 2 October 16, 2018 16:00 – 17:30

**Valastro Gianluca Camillo**, *A SDN/NFV based C-RAN architecture for 5G Mobile Networks*

**Bachmann Ivana**, *Modelling the interactions between the Internet backbone and the BGP network*

**Nachiket Tapas**, *Blockchain-based IoT-Cloud Authorization and Delegation*

**Tricomi Giuseppe**, *Hierarchical Load Balancing as a Service for federated Cloud networks*

#### Session 3 October 18, 2018 14:00 – 15:30

**Cruciani Emilio**, *Phase Transition of the 2-Choices Dynamics on Core-Periphery Networks*

**Eyal Gal**, *Rich cell-type-specific network topology in neocortical microcircuitry*

**Finotelli Paolo**, *The FD model: A Mixed Functional-Topological Model for Studying the Functional Connectivity in Human and Non-Humans. Application to Some Case-Study of Medical*

**Scornavacca Giacomo**, *On the Metastability of Quadratic Majority Dynamics on Clustered Graphs and its Biological Implications*

**Mulas Raffaella**, *Hypergraph Laplace Operators for Chemical Reaction networks*

**Grassia M.**, *Long distance connections for ranking and robustness enhancement in network*

#### Session 4 October 18, 2018 16:00 – 17:30

**Previti Maria Laura**, *Twitter cascade analysis: difference among true, mixed and false news spreading*

**Traverso Silvio**, *Trade openness and food security*

**Henry Elise**, *Coupling Multi-layer Networks and Stress Testing for assessing the resilience of transport networks*

**Hanteer Obaida**, *From Interaction to Participation: the role of the imagined audience in social media community detection*

**Prem Sankar C.**, *Swarm Intelligence Based Approaches to Explore the Diffusion Process in Large Complex Social Networks*