

M.M.SE.OR. 2017



Website

www.mmseor2017.it

Email

mmseor2017@unime.it

Chairman

Giancarlo Consolo

Organizing Committee

Giancarlo Consolo
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Natale Manganaro
Nunziacarla Spanò
Giovanna Valenti

Scientific Committee

Carmela Currò
Giuseppe Mulone
Luigi Preziosi
Marco Sammartino
Giovanna Valenti

Sponsors



Venue

Atahotel Naxos Beach 4*
Via Recanati, 26
Giardini Naxos, Messina (IT)
www.atahotels.it/en/hotel/atahotel-naxos-beach

School & Research Workshop

Mathematical Modelling of Self-Organizations in Medicine, Biology and Ecology: *from micro to macro*

Giardini Naxos (Messina, Italy), 18-21 September 2017

Aims

- Providing the main mathematical methods and models to describe pattern dynamics observed in medicine, biology and ecology.
- Exploring self-organizations phenomena occurring at microscale (subcellular systems) and macroscale (ecosystems).
- Promoting an interdisciplinary know-how in different research fields.
- Stimulate an interaction between internationally-recognized scientists and young researchers.
- Establishing collaborations between theorists and experimentalists.

Keynote Speakers

- Stephen Coombes (University of Nottingham, UK)
- Mirosław Lachowicz (University of Warsaw, Poland)
- Jonathan Potts (The University of Sheffield, UK)
- Luigi Preziosi (Politenico di Torino, Italy)

Working plan

This S&RW is subdivided into two stages.

- “School” stage: 18-19 September

This part is devoted to lectures given by internationally-recognized speakers. They will provide mathematical methods and show some applications in several research fields, such as neurosciences, cell migration, swarms and spatial segregation of animal communities.

- “Research Workshop” stage: 20-21 September

Further invited speakers, PhD students and young researchers of different areas (mathematics, biology, medicine, environmental and biomedical engineering) will present results of their recent studies. During both oral and poster sessions, the participants will have the opportunity to interact with experts and explore interdisciplinary research topics.

Publication

Selected papers will be considered for publication in a Special Issue of the “Atti dell’Accademia Peloritana dei Pericolanti” in the Section of Physical, Mathematical and Natural Sciences (<http://cab.unime.it/journals/index.php/AAPP>)

Important date

Registration and Abstract submission deadline: 15 July 2017