

DSABNS 2019

10TH INTERNATIONAL CONFERENCE DYNAMICAL SYSTEMS APPLIED TO BIOLOGY AND NATURAL SCIENCES 3-6 FEBRUARY 2019, NAPOLI

Congress Center, University of Naples Federico II
Via Partenope 36

We are pleased to invite you to participate in the 10th International Conference on Dynamical Systems Applied to Biology and Natural Sciences that will take place in Napoli, Italy from 3 to 6 of February 2019.

DSABNS is a series of international conferences founded in 2010 targeted at the development and implementation of mathematical methodologies to model and analyse the dynamics of complex problems in bio and natural sciences. Over these years is bringing together researchers from a wide range of backgrounds including mathematics, physics, bioengineering, biology and ecology. The conference does not have registration fees in order to facilitate the participation of researchers that they don't have enough funds and both undergraduate and graduate students in order to bring them closer to contemporary research and community in the field.

Topics include but are not limited to:

- Complex Systems Modeling
- Bio-Engineering
- Bio-Processes
- Eco-Epidemiology
- Environmental Modelling
- Mathematical Biology
- Mathematical Epidemiology
- Mathematical Models in Immunology
- Mathematical Modeling of Molecular and Antigenic evolution
- Multiscale Modelling
- Mathematical Physics
- Nonlinear Dynamics & Chaos
- Numerical Analysis Methods
- Population Dynamics
- Statistical Mechanics Methods
- Time Series Analysis Methods

Oral and Poster presenters at the Conference may then submit full manuscripts for consideration to a special issue in the International Journal of Nonlinear Sciences and Numerical Simulation.

Important Dates

Registration opens	November 1, 2018
Deadline for abstract submission for oral presentations and posters	January 14, 2019
Decision on contributed oral presentations and posters	January 16, 2019
Registration for Participation closes	January 20, 2019

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PLENARY SPEAKERS

- Maira Aguiar**, University of Trento, Italy
Konstantin Blyuss, Department of Mathematics, University of Sussex, UK
Bruno Buonomo, Dept. of Mathematics and Applications, University of Naples Federico II, Italy
Julyan Cartwright, Ciencias de la Tierra CSIC – Universidad de Granada, Spain
Luca Gerardo-Giorda, Basque Center for Applied Mathematics, Spain
Mats Gyllenberg, Dept. of Math. and Stat., University of Helsinki, Finland
Bob Kooi, Vrije University, Amsterdam, The Netherlands
Pier Luca Maffettone, Dept. of Chemical, Materials and Ind. Production Engineering, University of Naples Federico II, Italy
Andrea Pugliese, Dept. of Math., Univ. of Trento, Italy
Edy Soewono, Institut Teknologi Bandung, Indonesia
Jens Starke, Mathematical Institute, University of Rostock, Germany
Nico Stollenwerk, Centro de Matemática, Apl. Fund. e Investigação Operacional, Lisbon University, Portugal
Ezio Venturino, Dept. of Math, Univ. of Turin, Italy
Juergen Vollmer, Institute of Theoretical Physics,

PUBLIC LECTURES

- Stefano Mazzoleni**, Dept. of Agricultural Sciences, Univ. of Naples Federico II, Italy
Piero Salatino, Dept. of Chemical, Materials & Ind. Production Eng. Univ. of Naples Federico II, Italy

INVITED SPEAKERS

- Malay Banerjee**, Indian Inst. of Tech. Kanpur, India
Carlos Braumann, Dept. of Math., Univ. Évora, Portugal
Vincenzo Capasso, Dept. of Math., Univ. of Milano, Italy
Florinda Capone, Dept. of Mathematics and Applications, Univ. of Naples Federico II, Italy
Salvatore Cuomo, Dept. of Mathematics and Applications, Univ. of Naples Federico II, Italy
Paolo Freguglia, Dept. of Pure and Applied Math., University of L'Aquila, Italy
Yuliya Kyrchko, Dept. of Math., Univ. of Sussex, UK
Addolorata Marasco, Dept. of Mathematics and Applications, Univ. of Naples Federico II, Italy
Antonio Marzocchella, Dept. of Chemical, Materials & Ind. Production Eng. Univ. of Naples Federico II, Italy
Andrey Morozov, Dept. of Mathematics, Univ. of Leicester, UK
Paula Patrício, Dept. of Math. NOVA University of Lisbon, Portugal
Alberto Pinto, Faculty of Sciences, Univ. of Porto, Portugal
Abdessamad Tridane, Dept. of Mathematical Sciences, United Arab Emirates University
Daive Valenti, Dept. of Physics and Chemistry, Univ. of Palermo, Italy
Rossana Vermiglio, Dept. of Math., Computer

THE LOCAL ORGANIZERS

- LUCIA RUSSO**, Consiglio Nazionale delle Ricerche, Istituto di Ricerche sulla Combustione, Napoli
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FRANCESCO GIANNINO, Dept. of Agricultural Sciences, Univ. of Naples Federico II
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