OCTOBER 25-27, 2021

ICTP-SAIRF SCHOOL ON APPLICATIONS OF NONLINEAR SYSTEMS TO SOCIO-ECONOMIC COMPLEXITY

Application deadline: Aug. 22, 2021

Online application and more information: www.ictp-saifr.org/sociophys20

The application of techniques of statistical (and other areas of) physics to understand the dynamics of social systems is currently one of the hottest topics in the study of complex systems. The so-called Sociophysics has attracted the attention of a large number of scientists from areas such as physics, computer science, and mathematics, as well as the humanities. This meeting will bring together physicists and other scientists from all over the world to focus on open issues in social modelling and to identify the new directions in which this interdisciplinary field is evolving.

Invited Speakers

- Alex Arenas (U. Polvra i Virgí, Spain)
- Pablo Balenzuela (U. de Buenos Aires, Argentina)
- Guillaume Delhaes (Lis, France)
- Silvio Ferreira (UNIP, Brazil)
- Jose Fernando Fontanari (IFSC/USP, Brazil)
- Serge Galam (ScPoL, France)
- José Roberto Iglesias (UNILA, Brazil)
- Marcelo Kuperman (CAB, Bariloche, Argentina)
- Fabiana Laguna (CAB, Bariloche, Argentina)
- Francisco WS Lima (UFRJ, Brazil)
- Vittorio Loreto* (Sapienza U. di Roma, Italy)
- Alexandre Martinez (USP-RP, Brazil)
- Hernán Makse (City College, CUNY, USA)
- Maxi San Miguel (IFSC, UBC-CSIC, Spain)
- Mauro Mobilia* (U. of Leeds, UK)
- Yonir Moreno* (U. de Zaragoza, Spain)
- Andrea Rapetti (U. of Catania, Italy)
- Fabiano Ribeiro (UFAL, Brazil)
- Viktoryia Semeshenko (IEP, Argentina)
- José Soares-Andrade Jr (UFC, Brazil)
- Katarzyna Sznaid-Weron (Wrocław U., Poland)
- Raúl Toral (IFSC, UBC-CSIC, Spain)
- Juan Alejandro Valdovinos (U. de Chile, Chile)

*to be confirmed

There is no registration fee and limited funds are available for travel and local expenses.

OCTOBER 28-30, 2021

ICTP-SAIRF WORKSHOP ON SOCIOPHYSICS: SOCIAL PHENOMENA FROM A PHYSICS PERSPECTIVE

Registration deadline: August 22, 2021

Online application and more information: www.ictp-saifr.org/wsociophys20

Complex socio-economic phenomena, such as financial crises, epidemics, crime propagation and opinion formation can be studied through complexity concepts, mathematical modelling and simulations. The school aims to provide interdisciplinary training to PhD students and postdoctoral researchers. Lectures will cover theoretical and computational aspects of complex systems and applications to social research.

Lecturers

- Pablo Balenzuela (U. de Buenos Aires, Argentina): Multi-agent models in complex networks
- Marcelo Kuperman (U. Balseiro-Bariloche, Argentina): Introduction to evolutionary game theory
- Cristina Masoller (U. Politécnica de Catalunya, Spain): Time series analysis
- Viktoryia Semeshenko (U. de Buenos Aires, Argentina): Economic and financial networks: models and analysis