



ICTP | International Centre for Theoretical Physics
SAIFR | South American Institute for Fundamental Research

Campus of IFT-UNESP - São Paulo, Brasil

October 17-22, 2022

SCHOOL ON APPLICATIONS OF NONLINEAR SYSTEMS TO SOCIO-ECONOMIC COMPLEXITY



PABLO BALENZUELA
U. de Buenos Aires, Argentina
*Multi-agent Models in
Complex Networks*



MARCELO KUPERMAN
I. Balseiro-Bariloche, Argentina
Introduction to Evolutionary Game Theory



CRISTINA MASOLLER
U. Politècnica de Catalunya, Spain
Time Series Analysis



VIKTORIYA SEMESHENKO
U. de Buenos Aires, Argentina
*Economic and Financial Networks:
Models and Analysis*

Complexity science is a new research field which focuses on complex systems with numerous components interacting with each other and their environment in many different ways. Intrinsically interdisciplinary, complex systems occur in all of nature and complexity concepts are applied in various scientific areas including the social and economic sciences.

Complex socio-economic phenomena, such as financial crises, epidemics, crime propagation and opinion formation can be studied through complexity concepts and appropriate mathematical and computational modelling. Developing such formalisms and validation protocols are some of the new challenges of this new research field.

The school aims to provide an interdisciplinary training to PhD students interested in complex systems and its applications to social research. Lectures will cover theoretical and computational aspects of complex systems and present the current research trends in the field.

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

Application deadline: August 8, 2022

Online application and more information:

www.ictp-saifr.org/sociophysics20



ORGANIZERS

Pablo Balenzuela (U. de Buenos Aires, Argentina)

Hilda Cerdeira (IFT-UNESP, Brazil)

Cristina Masoller (U. Politècnica de Catalunya, Spain)

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