











TLQS Workshop on Limits to Collective Agency

Description:

The ability to take collective actions, i.e. collective agency, is a key limiting factor for sustainability. Collective agency entails, among other things, identifying problems, understanding them, finding solutions, establishing consensus and implementing actions. Each of these aspects imposes limits and challenges on collective agency and they entail non-trivial trade-offs, e.g. between efficiency and resilience, or between individual freedom and social welfare. Understanding these aspects is key for realistic efforts towards a sustainable future.

The workshop will discuss collective agency from different angles (sociology, political science, evolution of cultures, collective behaviour of animal groups and in artificial societies, neuroscience), drawing from different disciplines.

The workshop aims at promoting scientific research on these subjects, by identifying specific questions that can be tackled in a quantitative manner.

The workshop is supported by National Institute of Oceanography and Applied Geophysics (OGS) and Trieste International Foundation for the Progress and Freedom of Sciences (FIT) as part of The Laboratory on Quantitative Sustainability (TLQS) initiative.

SPEAKERS:

E. AKÇAY

University of Pennsylvania, USA

M. T. ANGULO

Universidad Nacional Autónoma de México, Mexico

E. ARCAUTE AIZPURU

J. J. ARENZON

Universidade Federal do Rio Grande do Sul, Brazil

L. A. BETTENCOURT

University of Chicago Mansueto Institute for Urban Innovation. USA

I. COUZIN

University of Oxford, UK

A. DANNENBERG

University of Kassel, Germany

Towson University, UK

D. GARCIA

University of Konstanz, Germany

Pontificia Universidad Catolica de Chile, Chile

Stanford University Department of Biology, USA

U. HAHN

Birkbeck College, University of London, UK

M. M. HERZALLAH

Palestinian Neuroscience Initiative Al-Quds University, State of

T. HILLS

S. GELCICH

A. TAVONI University of Bologna, Italy G. THERAULAZ

D. M. GORDON

University of Warwick, UK S. JAIN

University of Delhi, India

F. KARIMI

Graz University of Technology, Austria

National Institute of Physics University of the Philippines Diliman,

University College London, UK

H. NOWOTNY

ETH Zürich, Switzerland

E. OMODEI

Central European University, Austria

J. B. PLOTKIN

University of Pennsylvania, USA M. SALES-PARDO

Universitat Rovira i Virgili, Spain

ESPCI Paris - PSL Laboratoire Biophysique et Evolution, France M. STARNINI

Centai Institute, Italy A. J. STEWART

University of St. Andrews, UK

Université Toulouse 3 - CNRS Centre de Recherches sur la

S. THURNER

Cognition Animale, France

Complexity Science Hub Vienna, Austria

E. U. WEBER

Princeton University, USA K. WIESNER

University of Potsdam, Germany

D. WOLPERT

Santa Fe Institute, USA



6 - 10 May 2024



Trieste, Italy



Applications and Deadlines:

1 February 2024

for applicants requesting financial and/or visa support

1 April 2024

for all other applicants

DIRECTORS:

M. GALESIC, Santa Fe Institute, USA

J. GRILLI, ICTP, Italy

S. A. LEVIN, Princeton University, USA

P. A. MARQUET, Pontificia Universidad Católica de Chile, Chile

H. OLSSON, Complexity Science Hub Vienna, Austria G. SANGUINETTI, SISSA, Italy

ORGANISER:

M. MARSILI, ICTP, Italy

FURTHER INFORMATION:



E-mail: smr3937@ictp.it

Web: http://indico.ictp.it/event/10475/

Female scientists are encouraged to apply.

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

