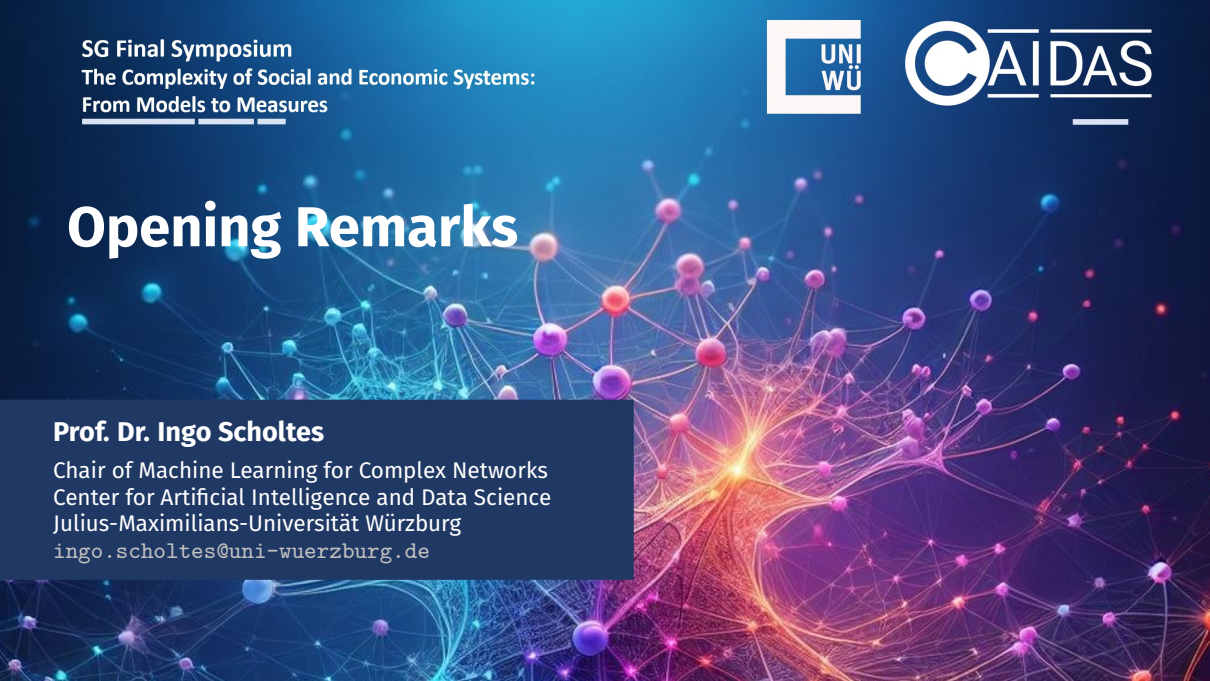
SG Final Symposium
The Complexity of Social and Economic Systems:
From Models to Measures

Opening Remarks

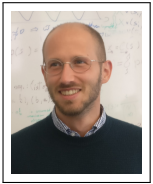
Prof. Dr. Ingo Scholtes
Chair of Machine Learning for Complex Networks
Center for Artificial Intelligence and Data Science
Julius-Maximilians-Universität Würzburg
ingo.scholtes@uni-wuerzburg.de



Welcome!

image credit: Generated by DALL-E

Speakers



Social capital

Chair of Systems Design

image credit: www.sg.ethz.ch

Stepping outside your comfort zone

image credit: Generated by DALL-E

A struggle towards the heights

Sisyphus by Titian, 1548 – 1549

image credit: public domain

Session I: Coordination, Collaboration, and Success

Marton Karsai

Memory, Causality and Their Consequences in Temporal Networks

Department of Network and Data Science, Central European University Vienna (Austria)

See Abstract

October 31, 2024 | 09:30–10:00

Christoph Gote

Decoding Collaboration: Predicting and Optimising Software Development through Networks

Axpo Group

See Abstract

October 31, 2024 | 10:00–10:20

Giacomo Vaccario

Knowledge in socio-economic systems: Insights from collaboration, mobility, and data-driven models

ETH Zürich

See Abstract

October 31, 2024 | 10:20–10:40

Ingo Scholtes

What makes teams successful? A Network Science Perspective

Center for Artificial Intelligence and Data Science, Universität of Würzburg

See Abstract

October 31, 2024 | 10:40–11:00

Session II: Dependency, Risk and Resilience

Mauro Napoletano

Extreme Events in Micro- and Macroeconomic Dynamics: Theory and Empirical Evidence

Université Côte d'Azur, Sophia-Antipolis (France)

See Abstract

October 31, 2024 | 11:30–12:00

Rebekka Burkholz

Cascade Processes for Sparse Machine Learning

CISPA Helmholtz Center for Information Security, Saarbrücken (Germany)

See Abstract

October 31, 2024 | 12:00–12:20

Stefano Battiston

Climate change and financial risk

University of Zurich and Ca Foscari of Venice

See Abstract

October 31, 2024 | 12:20–12:40

Giona Casiraghi

Quantifying Resilience in Complex Systems: From Robustness to Adaptivity

Chair of Systems Design, ETH Zürich

See Abstract

October 31, 2024 | 12:40–13:00

Session III: Emotions, Opinions and Polarization

Andreas Flache

The Complexity of Social Polarization: Connecting Individual Opinions and Societal Dynamics with Agent-Based Models and Experiments

Department of Sociology, University of Groningen, NL

See Abstract

October 31, 2024 | 14:30–15:00

Jan Lorenz

Opinion Distributions in the Real World

School of Business, Social and Decision Sciences, Constructor University Bremen (Germany)

See Abstract

October 31, 2024 | 15:00–15:20

Laurence Brandenberger

The Rise of Extremes: Tracing the Surge in Swiss Political Polarization

Professorship for Political Methodology, University of Zurich (Switzerland)

See Abstract

October 31, 2024 | 15:20–15:40

David Garcia

Online emotions and how to measure them

Computational Social Science Lab, University of Konstanz

See Abstract

October 31, 2024 | 15:40–16:00

Farewell Lecture

“Dämmerung”

17:00 c.t.

Prof. Dr. Dr. Frank Schweitzer

The journey continues …

image credit: The Grey Havens by Alan Lee