Overview of Invited Talks and Sessions
(lecture rooms H 0110, H 0105, HE 101, MA 004, MA 001; Poster F)

Keynote Talks related to SOE

SOE 4.1 Mon 14:00–14:45 H 0105  The Fragility of Interdependency: Coupled Networks & Switching Phenomena — H. Eugene Stanley

Tutorial and Panel Discussion Scientific Writing

SOE 1.1 Sun 16:00–16:20 H 0105  Tutorial for authors and referees — Hernan Rozenfeld
SOE 1.2 Sun 16:20–16:40 H 0105  From submission to publication with IOP journals - a guide for authors — Tim Smith
SOE 1.3 Sun 16:40–17:00 H 0105  Preparing and submitting a scientific paper — Rachel Won
SOE 1.4 Sun 17:00–17:20 H 0105  Writing to meet expectations — Mark Buchanan

Invited Talks

Further invited talks are listed below as parts of focus sessions.

SOE 17.1 Thu 9:30–10:15 H 0110  Common design principles of metabolic networks and industrial production — Marc Hütter

Focus Session: Big Data

SOE 5.1 Mon 15:00–15:30 HE 101  Cities and Complexity — Michael Batty
SOE 5.2 Mon 15:30–16:00 HE 101  Experimental Computational Finance & Big Data Environment — Philip Treleaven
SOE 5.3 Mon 16:00–16:30 HE 101  Embedding high dimensional data on networks — Tiziana DiMatteo
SOE 5.4 Mon 16:30–17:00 HE 101  Econophysics and social research with large sets of data — Rosario N. Mantegna

Focus Session: Models of War and Conflict

SOE 8.1 Tue 9:30–10:00 H 0110  The distribution and dynamics of war sizes — Aaron Clauset
SOE 8.2 Tue 10:00–10:30 H 0110  Modeling Wars and Terrorism: From particles to people — Neil Johnson
SOE 8.3 Tue 10:30–11:00 H 0110  Spatio-Temporal Dynamics of Violence in Jerusalem — Karsten Donnay
Award Ceremony: Young Scientist Award for Socio and Econophysics

SOE 16.1 Wed 18:00–18:40 H 0105  The Role of Agent Based Models in Understanding Human Societies — **Stefan Thurner**

SOE 16.2 Wed 18:50–19:30 H 0105  The evolution of cooperation in simple agent based models — **Arne Traulsen**

**Invited talks of the joint symposium SYCF**

See SYCF for the full program of the symposium.

SYCF 1.1 Wed 9:30–10:00 H 0105  Der Reaktorunfall von Fukushima: Unfallablauf, Emissionen, Immissions — **Gerald Kirchner, Bernhard Fischer**

SYCF 1.2 Wed 10:00–10:30 H 0105  Radiologische und radioökologische Aspekte des Reaktorunfalles von Fukushima — **Gerhard Proehl**

SYCF 1.3 Wed 10:30–11:00 H 0105  Wie Fukushima die Energiepolitik und Energieforschung in Deutschland und international verändert — **Joachim Knebel**

SYCF 1.4 Wed 11:00–11:30 H 0105  Entscheidungszwänge in der Weltenergieversorgung und Klimapolitik bei hoher Unsicherheit — **Carl Christian von Weizsäcker**

**Invited talks of the joint symposium SYND**

See SYND for the full program of the symposium.

SYND 1.1 Thu 9:30–10:00 H 0105  Controlling Complex Networks with Compensatory Perturbations — **Adilson E. Motter**

SYND 1.2 Thu 10:00–10:30 H 0105  Toward control, prediction, and optimization of biological and engineering complex networks — **Kazuyuki Aihara**

SYND 1.3 Thu 10:30–11:00 H 0105  Design of robust functional networks as complex combinatorial optimization problem — **Alexander S. Mikhailov**

SYND 1.4 Thu 11:00–11:30 H 0105  Braess Paradox, (In-)Stability and Optimal Design: Nonlinear Dynamics of Modern Power Grids — **Marc Timme, Dirk Witthaut, Martin Rohden, Andreas Sorge**

SYND 1.5 Thu 11:30–12:00 H 0105  Delay-Coupled Laser Networks: Complex Behavior, Synchronization and Applications — **Ingo Fischer**

**Sessions**

SOE 1.1–1.4 Sun 16:00–18:30 H 0105  Tutorial and Panel Discussion Scientific Writing

SOE 2.1–2.4 Mon 9:30–10:45 H 0110  Financial Markets and Risk Management I

SOE 3.1–3.6 Mon 11:00–12:30 H 0110  Economic Models and Evolutionary Game Theory I

SOE 4.1–4.1 Mon 14:00–14:45 H 0105  Keynote Talk

SOE 5.1–5.4 Mon 15:00–17:00 HE 101  Focus Session: Big Data

SOE 6.1–6.6 Mon 17:15–18:45 HE 101  Focus Session: Big Data (Contributed Talks)

SOE 7  Mon 19:00–19:30  H 0110  Annual Member’s Assembly of SOE

SOE 8.1–8.3 Tue 9:30–11:00  H 0110  Focus Session: Models of War and Conflict

SOE 9.1–9.6 Tue 11:15–12:45  H 0110  Energy and Environment

SOE 10.1–10.6 Tue 14:00–15:30  H 0110  Social Systems, Opinion and Group Dynamics I

SOE 11.1–11.1 Wed 9:30–10:15  H 0110  Networks, From Topology to Dynamics I (joint w. DY)

SOE 12.1–12.9 Wed 10:15–12:45  H 0110  Networks, From Topology to Dynamics II (joint w. DY)

SOE 13.1–13.7 Wed 14:00–15:45  H 0110  Communication and Language

SOE 14.1–14.7 Wed 15:00–16:45  MA 004  Networks, From Topology to Dynamics III (joint w. DY)

SOE 15.1–15.21 Wed 16:45–17:50  Poster F  Poster Session

SOE 16.1–16.2 Wed 18:00–20:00  H 0105  Award Ceremony: Young Scientist Award for Socio- and Econophysics


SOE 18.1–18.4 Thu 10:15–11:15  H 0110  Traffic Dynamics, Urban and Regional Systems II

SOE 19.1–19.3 Thu 11:30–12:15  H 0110  Social Systems, Opinion and Group Dynamics II

SOE 20.1–20.5 Thu 14:00–15:15  H 0110  Social Systems, Opinion and Group Dynamics III

SOE 21.1–21.6 Thu 15:30–17:00  H 0110  Economic Models and Evolutionary Game Theory II

SOE 22.1–22.8 Fri 10:00–12:00  MA 001  Networks, From Topology to Dynamics IV (joint w. DY)
Annual General Meeting of the Physics of Socio-economic Systems Division

Mo 19:00–19:30  H 0110