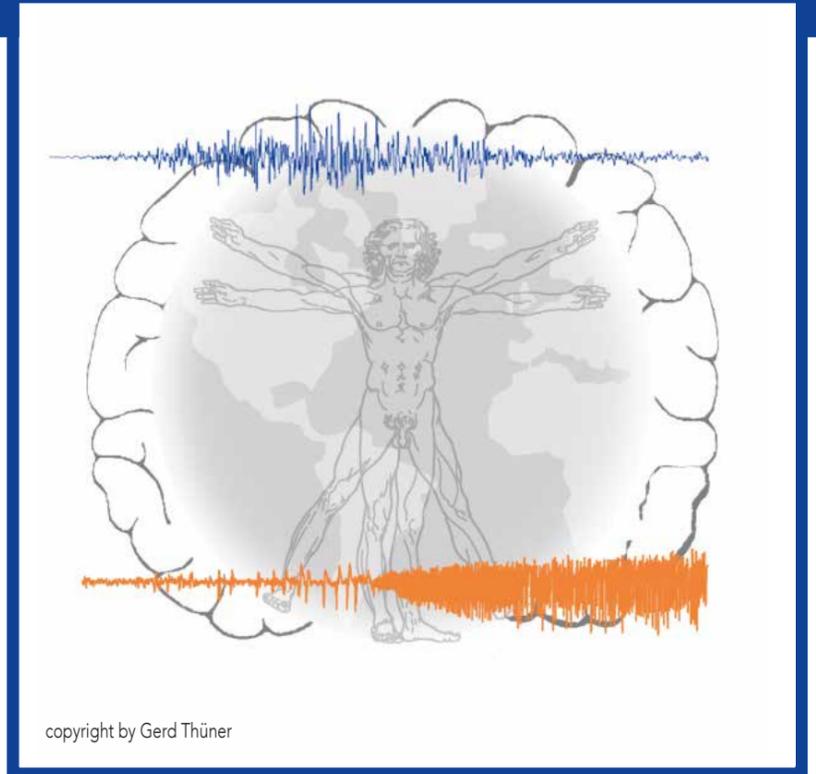




Predicting Transitions in Complex Systems

International Workshop 23 - 27 April 2018

Complex dynamical systems can show sudden transitions to very diverse regimes including dangerous ones such as desertification or epileptic seizures. The workshop will focus on new advances in data-driven approaches for identifying, characterizing and predicting regime transitions, promoting cross-fertilization across disciplines.



Topics:

- ecology
- biophysics
- data analysis
- econophysics
- brain dynamics
- social networks
- extreme events
- complex systems
- climate dynamics
- critical transitions
- information theory
- nonlinear dynamics
- time-series analysis
- stochastic processes
- early-warning signals

Invited speakers:

Kazuyuki Aihara (JP)
 José María Amigó García (ES)
 Dante Chialvo (AR)
 Jörn Davidsen (CA)
 Gustavo Deco (ES)
 Henk Dijkstra (NL)
 Ulrike Feudel (DE)
 Petra Friederichs (DE)
 Jordi García Ojalvo (ES)
 Alan Hastings (US)
 Emilio Hernández-García (ES)
 Holger Kantz (DE)
 Mark Kramer (US)
 Christian Kühn (DE)
 Jürgen Kurths (DE)
 Inmaculada Leyva (ES)
 Milan Palus (CZ)
 Ulrich Parlitz (DE)
 Martin Rasmussen (GB)
 Hui Ren (CN)
 Osvaldo A. Rosso (BR)

Maria V. Sanchez-Vives (ES)
 Eckehard Schöll (DE)
 Michael Small (AU)
 Linda Sommerlade (GB)
 Aneta Stefanovska (GB)
 Piotr Suffczynski (PL)
 John Terry (GB)
 Raul Toral (ES)
 Lev Tsimring (US)
 Michal Zochowski (US)

Scientific coordinators:

Jaroslav Hlinka
 Prague, Czech Republic
 Klaus Lehnertz
 Bonn, Germany
 Cristina Masoller
 Terrassa, Spain

Organisation:

Mandy Lochar
 MPIPKS Dresden

Applications received before 15 January 2018 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses.

For further information please contact:

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