

First Announcement

The aim of the conference is to address fundamental developments and state-of-the-art applications of delay differential equations in various scientific disciplines. In particular, it is intended to focus on nonlinear dynamical systems and complex networks with time delay occurring in physics, chemistry, biology, and neuroscience, where memory effects and finite signal propagation and processing times are important.

The conference will also encompass the application of time delays in economy, sociology, ecology, and engineering. Examples include, e.g., heterogeneity and robustness of delay-coupled networks, information processing, sensor networks, neural networks, or delay control of quantum systems. It will be exciting to work out the striking analogies between delay-coupled lasers and neural systems in both of which delay effects are abundant. Another focus will be that time delays have become an important tool for controlling nonlinear dynamical systems, as exemplified by new approaches towards controlling complex networks, or spatio-temporal patterns, or noise-induced oscillations.

Complementary to these applications, the workshop will also present fundamental developments in novel theoretical concepts and sophisticated numerical analysis of these systems. Finally, new insights in the mathematical properties of deterministic and stochastic functional delay differential equations, including spatially inhomogeneous systems and systems with distributed or state-dependent delay, will also be reviewed.

Collaborative Research Center 910
"Control of self-organizing nonlinear systems:
Theoretical methods and concepts of application"



International Conference on Delayed Complex Systems

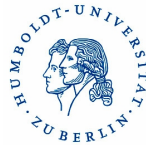
4th - 8th June, 2012

Palma de Mallorca, Spain

Institute for Cross-Disciplinary Physics and
Complex Systems



Organizers:
Eckehard Schöll (SFB 910, Berlin), Chair
Ingo Fischer (IFISC, Palma de Mallorca), Co-Chair



Organizing Committee

Eckehard Schöll (SFB 910), Chair
Ingo Fischer (IFISC), Co-Chair
Miguel Cornelles Soriano (IFISC)
Thomas Dahms (TU Berlin)
Bernold Fiedler (FU Berlin)
Valentin Flunkert (IFISC)
Andrew Keane (SFB 910)
Sabine Klapp (TU Berlin)
Judith Lehnert (TU Berlin)
Claudio Mirasso (IFISC)
Serhiy Yanchuk (HU Berlin)

For further information see
<http://www.itp.tu-berlin.de/sfb910/dcs12>

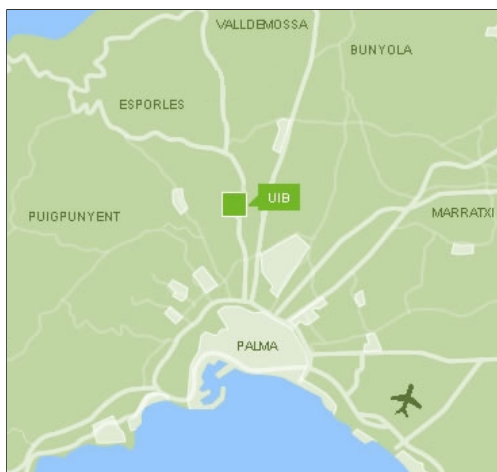
Venue

The DCS12 Conference will take place on the campus of the UIB (University of the Balearic Islands). The campus is located about 7 km north of the city of Palma de Mallorca, on the road from Palma de Mallorca to Valldemossa. More information can be found on

<http://www.uib.eu/Visitors/Location/>.

The conference will be held in the Auditorium of the "Son Lledó" building.

The UIB campus can be reached conveniently by public transport. Bus and a Metro lines, departing from Plaça d'Espanya, are connected to the campus.



Invited Speakers

Andreas Amann (Cork)
Fatihcan Atay (Leipzig)
Sue Ann Campbell (Waterloo)
Jens Christian Claussen (Lübeck)
Clive Emary (Berlin)
Thomas Erneux (Bruxelles)
Bernold Fiedler (Berlin)
Daniel Gauthier (Durham)
Thilo Gross (Bristol)
Philipp Hövel (Boston)
Henri Huijberts (London)
Mogens H. Jensen (Copenhagen)
Viktor Jirsa (Marseille)
Wolfram Just (London)
Ido Kanter (Bar-Ilan)
Wolfgang Kinzel (Würzburg)
Yuliya Kyrychko (Brighton)
Laurent Larger (Besancon)
André Longtin (Ottawa)
Yuri Maistrenko (Kiev)
Cristina Masoller (Barcelona)
Andrew Oates (Dresden)
Junji Ohtsubo (Hamamatsu)
Gabor Orosz (Ann Arbor)
Edward Ott (College Park)
Ulrich Parlitz (Göttingen)
Antonio Politi (Firenze)
Claire Postlethwaite (Auckland)
Kestutis Pyragas (Vilnius)
Pierre Rouchon (Paris)
Jan Sieber (Portsmouth)
Wolf Singer (Frankfurt)
Joshua Socolar (Durham)
Gabor Stepan (Budapest)
Raul Toral (Palma)
Hans-Otto Walther (Giessen)
Serhiy Yanchuk (Berlin)

Schedule & Registration

Schedule:

The conference will start on Monday, 4th June, at 9am and end on Friday, 8th June, at 2pm. There will be a conference excursion on Wednesday afternoon, followed by a conference dinner in the evening.

Registration Fees:

	until 1st April	after 1st April
Regular	300 EUR	400 EUR
Student	150 EUR	200 EUR

The fees cover access to the scientific sessions, the book of abstracts, coffee breaks, a welcome reception, the conference excursion and the conference dinner.

Deadlines:

Abstract submission: 1st March, 2012
Notification of acceptance: 15th March, 2012
Early registration deadline: 1st April, 2012
Registration deadline: 15th May, 2012

The number of attendees is limited.

In case of any questions, please contact:
dcs12@itp.tu-berlin.de