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The 8th International Scientific Conference on Physics and Control (PhysCon2017) will take place at University of Firenze, Piazza S. Marco, 4 and at Didactic Plexus “Capponi”, via Gino Capponi 9, Firenze, Italy. The conference will be hosted in the historical site of the Chemistry and Pharmacy Department “Ugo Schiff”. PhysCon2017 will be from 17<sup>th</sup> to 19<sup>th</sup> July, 2017.

#### The Short Course on Basics of Physics of Control and Recent Advancements

##### Lecturers:

A. Fradkov (Inst. for Problems of Mech. Eng., St. Petersburg, Russia)  
 J. Kurths (Humboldt University, Berlin, Germany)  
 E. Schöll (Technische Universität, Berlin, Germany)  
 S. Boccaletti (ISC-Institute for Complex Systems, Italy)

##### Among the keynote speakers are:

M. Frasca (Università di Catania, Italy)  
 J. M. Ginoux (Laboratoire LSIS, CNRS, UMR 7296, France)  
 J. Bechhoefer (Simon Fraser University, Canada)

PhysCon2017 will focus on the borderland between Physics and Control with emphasis on both theory and applications.

Topics will include (but will not be limited to):

- Nonlinear dynamics,
- Controlled systems in physics,
- Dynamics and control of complex networks,
- Self-organization and complexity,
- Micro and nano-technologies,
- Control in thermodynamics,
- Communication and transportation,
- Environmental and earth sciences,
- Control of ecosystems and climate,
- Mathematics,
- Chemistry,
- Sociology,
- Biology and medicine,
- Engineering methods and applied fields

The Physcon 2017 will also include the following Special Sessions/Minisymposia:

- Algebraic aspects of control of dynamical systems and applications
- Analogies between long-delayed and spatially extended systems
- Chaotic and Complex Dynamics and its Applications
- Control of self-organized patterns in complex networks
- Control, State Estimation, and Optimization of Dynamical Systems
- Dynamics and regulation of complex interaction models
- Multistability and Its Control
- Quantum optimal control

After the peer review process, all accepted papers for the conference are eligible for inclusion in the IPACS Open Access library.

#### IMPORTANT DEADLINES

Deadline for Paper Submission  
 Notification of Acceptance

**30 April 2017**  
**15 May 2017**

<http://www.physcon2017.com/>

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