Bolyai Institute
University of Szeged
Aradi vértanúk tere 1, 6720 Szeged, Hungary
www.math.u-szeged.hu

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CALL FOR PARTICIPATION

Continuing the long series of international schools on Mathematics and Computer-Aided Modeling in Sciences, **Bolyai Institute, University of Szeged** announces

an International Spring School

Computer-aided Modelling of Dynamical Systems

22-26 May, 2018, Szeged

Audience: We welcome researchers, PhD and graduate students in mathematics or other sciences.

Prerequisites: Knowledge of Mathematica at basic level; courses of master level on differential and difference equations. Programming experience is advantageous.

Content:
Days 1-2, Wolfram Mathematica: new features and current developments (by certified instructor)*;* basic tools for difference and differential equations, applications in hybrid systems, equations with delays, partial differential equations, qualitative methods such as linearization, Lyapunov's method, bifurcations, etc.
Day 3, MATLAB: Introduction and application to dynamical systems (by official trainer).
Days 4-5, project development: working in teams (4-5 members) led by experts in dynamical modeling. The teams present their development on the closing session.

Venue: Bolyai Institute, University of Szeged, Szeged, Aradi vértanúk tere 1.

Length: 24 hours classes, 16 hours teamwork

Language: English

Schedule: 8.30 - 12.00 and 13.00 – 17.00 with a short breaks in the middle.

Deadline for application: April 15, 2018

Conditions:
- Participation is free. Participants have to mention this support when the participation is referred.
- Participants receive electronic handouts.
- Own laptops needed with newest Mathematica and MATLAB installed (demo versions are available)
- Participants have to manage and cover their accommodation and travel by themselves.
- Application forms should be sent to karsai.janos@math.u-szeged.hu.

Details, application form and downloads:
> www.model.u-szeged.hu

Coordinator, contact:
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