MORML '16
Workshop on Data-driven Model Order Reduction and Machine Learning

University of Stuttgart, Germany
Mar. 30 - Apr. 1, 2016

Keynote Speakers

Christopher A. Beattie
Virginia Tech, USA

Kevin T. Carlberg
Sandia National Laboratories, USA

Yvon Maday
Université Pierre et Marie Curie, France

John Shawe-Taylor
University College London, UK

Deadlines

Abstract submission
December 15, 2015

Author notification
January 15, 2016

Registration
March 7, 2016

Invited Speakers

Jörg Fehr
University of Stuttgart, Germany

Jochen Garcke
Fraunhofer SCAI and University of Bonn, Germany

Sara Grundel
MPI Magdeburg, Germany

Serkan Gugercin
Virginia Tech, USA

Nathan Kutz
University of Washington, USA

Ngoc-Cuong Nguyen
Massachusetts Institute of Technology, USA

Andrea Manzoni
EPFL, Switzerland

Scope

Data and model reduction
Loewner approach, data-driven methods, data assimilation, state estimation of noisy systems, Kalman filtering

Machine learning & model reduction
Greedy procedures, adaptivity/localization, clustering, manifold learning, nonlinear approximations, regression, kernel methods, error surrogates

Analysis
Stability analysis, conservation of physical properties, error quantification and convergence

Applications
Optimization/control, UQ, inference, circuit, CFD, mechanics, and finance simulations; software development and industrial application aspects