

Preface

This volume comprises selected contributions to the 27th Conference on System Modelling and Optimization that took place from June 29 to July 3, 2015, on the SophiaTech Campus, Sophia Antipolis, France.

These articles encompass broad aspects of system modelling and optimization, such as modelling and analysis of systems governed by partial differential equations (PDEs) or ordinary differential equations (ODEs), control of PDEs/ODEs, nonlinear optimization, stochastic optimization, multi-objective optimization, combinatorial optimization, industrial applications, and numerics of PDEs. These themes are the focus of the IFIP TC7 community.

The conference was co-organized by two local institutions, Inria Sophia Antipolis Méditerranée and Université Côte d’Azur jointly with North Carolina State University, (visit <http://ifip2015.inria.fr>).

This scientific event was attended by more than 250 participants, from about 30 different countries. The conference program was composed of eight plenary talks, and 26 invited mini-symposia, plus three sessions of refereed contributed papers, resulting in a total of 62 sessions, and altogether 230 presentations.

The 48 refereed contributions included in the present proceedings cover the latest progress in their respective areas, and give a flavor of the wide range and exciting topics discussed at the meeting.

We warmly thank the members of the Scientific Committee and our solicited reviewers for their valuable contributions.

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Lorena Bociu
Jean-Antoine Désidéri
Abderrahmane Habbal

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Bociu, L.; Désidéri, J.-A.; Habbal, A. (Eds.)

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