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IFIP was founded in 1960 under the auspices of UNESCO, following the First World Computer Congress held in Paris the previous year. An umbrella organization for societies working in information processing, IFIP's aim is two-fold: to support information processing within its member countries and to encourage technology transfer to developing nations. As its mission statement clearly states,

*IFIP's mission is to be the leading, truly international, apolitical organization which encourages and assists in the development, exploitation and application of information technology for the benefit of all people.*

IFIP is a non-profitmaking organization, run almost solely by 2500 volunteers. It operates through a number of technical committees, which organize events and publications. IFIP's events range from an international congress to local seminars, but the most important are:

- The IFIP World Computer Congress, held every second year;
- Open conferences;
- Working conferences.

The flagship event is the IFIP World Computer Congress, at which both invited and contributed papers are presented. Contributed papers are rigorously refereed and the rejection rate is high.

As with the Congress, participation in the open conferences is open to all and papers may be invited or submitted. Again, submitted papers are stringently refereed.

The working conferences are structured differently. They are usually run by a working group and attendance is small and by invitation only. Their purpose is to create an atmosphere conducive to innovation and development. Refereeing is also rigorous and papers are subjected to extensive group discussion.

Publications arising from IFIP events vary. The papers presented at the IFIP World Computer Congress and at open conferences are published as conference proceedings, while the results of the working conferences are often published as collections of selected and edited papers.

Any national society whose primary activity is about information processing may apply to become a full member of IFIP, although full membership is restricted to one society per country. Full members are entitled to vote at the annual General Assembly, National societies preferring a less committed involvement may apply for associate or corresponding membership. Associate members enjoy the same benefits as full members, but without voting rights. Corresponding members are not represented in IFIP bodies. Affiliated membership is open to non-national societies, and individual and honorary membership schemes are also offered.

More information about this series at <http://www.springer.com/series/6102>

Christian Pötzsche · Clemens Heuberger  
Barbara Kaltenbacher · Franz Rendl (Eds.)

# System Modeling and Optimization

26th IFIP TC 7 Conference, CSMO 2013  
Klagenfurt, Austria, September 9–13, 2013  
Revised Selected Papers

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# Preface

Every 2 years, the International Federation for Information Processing Technical Committee 7 (IFIP TC 7)—System Modeling and Optimization—arranges highly regarded conferences on several topics of Applied Optimization, such as Optimal Control of Ordinary and Partial Differential Equations, Modeling and Simulation, Inverse Problems, Nonlinear, Discrete, and Stochastic Optimization, as well as Industrial Applications.

The collection in your hands contains selected papers presented at the 26th IFIP TC 7 Conference held at the Alpen-Adria-Universität Klagenfurt, Austria during September 8–13, 2013,

<http://ifip2013.uni-klu.ac.at>

The conference was organized by the local Institute of Mathematics. Preceding conferences in this series were held in Berlin, Germany (2011), Buenos Aires, Argentina (2009), Cracow, Poland (2007), and Turin, Italy (2005). The scientific program of the 2013 event consisted of 10 plenary talks, 33 minisymposia (from 4–12 invited talks each), and 5 contributed sessions. In total, this resulted in 235 talks. Altogether 268 participants from 32 countries came to the conference, the largest groups with respect to country of origin were Germany (80), Austria (66), Poland (21), France (15), UK (11), USA (11), Romania (10), Russia (10), Italy (8), Belgium (5), and the Czech Republic (5).

The 34 refereed contributions to these proceedings cover the latest progress in a wide range of topics discussed at the meeting.

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Finally, we would like to thank our referees.

July 2014

Christian Pötzsche  
Clemens Heuberger  
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## Participants



# Contents

Stochastic Maximum Principle for Hilbert Space Valued Forward-Backward Doubly SDEs with Poisson Jumps. . . . .	1
<i>AbdulRahman Al-Hussein and Boulakhras Gherbal</i>	
Efficient Solvers for Large-Scale Saddle Point Systems Arising in Feedback Stabilization of Multi-field Flow Problems . . . . .	11
<i>Peter Benner, Jens Saak, Martin Stoll, and Heiko K. Weichelt</i>	
Stochastic Control of Econometric Models for Slovenia. . . . .	21
<i>Dimitri Blueschke, Viktoria Blueschke-Nikolaeva, and Reinhard Neck</i>	
The Optimal Control of Cellular Communication Enterprise Development in Competitive Activity . . . . .	31
<i>Irina Bolodurina and Tatyana Ogurtsova</i>	
Simulation of Acoustic Wave Propagation in Anisotropic Media Using Dynamic Programming Technique . . . . .	36
<i>Nikolai Botkin and Varvara Turova</i>	
Efficient Cardinality/Mean-Variance Portfolios . . . . .	52
<i>R. Pedro Brito and Luís N. Vicente</i>	
Two Semi-Lagrangian Fast Methods for Hamilton-Jacobi-Bellman Equations . . . . .	74
<i>Simone Cacace, Emiliano Cristiani, and Maurizio Falcone</i>	
Dynamic Sampling Schemes for Optimal Noise Learning Under Multiple Nonsmooth Constraints . . . . .	85
<i>Luca Calatroni, Juan Carlos De Los Reyes, and Carola-Bibiane Schönlieb</i>	
Exponential Convergence to Equilibrium for Nonlinear Reaction-Diffusion Systems Arising in Reversible Chemistry . . . . .	96
<i>Laurent Desvillettes and Klemens Fellner</i>	
A High-Order Semi-Lagrangian/Finite Volume Scheme for Hamilton-Jacobi-Isaacs Equations. . . . .	105
<i>Maurizio Falcone and Dante Kalise</i>	
Simultaneous Material and Topology Optimization Based on Topological Derivatives. . . . .	118
<i>Jannis Greifenstein and Michael Stingl</i>	
Steady Fluid-Structure Interaction Using Fictitious Domain . . . . .	128
<i>Andrei Halanay and Cornel Marius Murea</i>	



Sensitivity of the Solution Set to Second Order Evolution Inclusions. . . . .	138
<i>Jiangfeng Han and Stanislaw Migorski</i>	
Impulse Control of Standard Brownian Motion: Long-Term Average Criterion . . . . .	148
<i>Kurt Helmes, Richard H. Stockbridge, and Chao Zhu</i>	
Impulse Control of Standard Brownian Motion: Discounted Criterion . . . . .	158
<i>Kurt Helmes, Richard H. Stockbridge, and Chao Zhu</i>	
On Target Control Synthesis Under Set-Membership Uncertainties Using Polyhedral Techniques . . . . .	170
<i>Elena K. Kostousova</i>	
Application of the Fenchel Theorem to the Obstacle Problem . . . . .	181
<i>Diana R. Merlușcă</i>	
A Penalization Method for the Elliptic Bilateral Obstacle Problem . . . . .	189
<i>Cornel Marius Murea and Dan Tiba</i>	
Binary Level Set Method for Topology Optimization of Variational Inequalities. . . . .	199
<i>Andrzej Myśliński</i>	
Nonlinear Delay Evolution Inclusions on Graphs . . . . .	210
<i>Mihai Necula, Marius Popescu, and Ioan I. Vrabie</i>	
Graphical Lasso Granger Method with 2-Levels-Thresholding for Recovering Causality Networks . . . . .	220
<i>Sergiy Pereverzyev Jr. and Kateřina Hlaváčková-Schindler</i>	
Right-Hand Side Dependent Bounds for GMRES Applied to Ill-Posed Problems. . . . .	230
<i>Jennifer Pestana</i>	
PDE-Driven Shape Optimization: Numerical Investigation of Different Descent Directions and Projections Using Penalization and Regularization . . .	237
<i>Peter Philip</i>	
Tomographic Reconstruction of Homogeneous 2D Geometric Models with Unknown Attenuation. . . . .	247
<i>Zenith Purisha and Samuli Siltanen</i>	
A Control Delay Differential Equations Model of Evolution of Normal and Leukemic Cell Populations Under Treatment . . . . .	257
<i>I. Rodica Rădulescu, Doina Căndea, and Andrei Halanay</i>	

More Safe Optimal Input Signals for Parameter Estimation  
of Linear Systems Described by ODE . . . . . 267  
*Ewaryst Rafajłowicz and Wojciech Rafajłowicz*

Exponential Stability of Compactly Coupled Wave Equations with Delay  
Terms in the Boundary Feedbacks. . . . . 278  
*Salah-Eddine Rebiai and Fatima Zohra Sidi Ali*

Model Predictive Control of Temperature and Humidity in Heating,  
Ventilating and Air Conditioning Systems . . . . . 285  
*Jakob Rehrl, Daniel Schwingshackl, and Martin Horn*

Regularization of Linear-Quadratic Control Problems with  $L^1$ -Control Cost. . . . . 296  
*Christopher Schneider and Walter Alt*

Deployment of Sensors According to Quasi-Random and Well Distributed  
Sequences for Nonparametric Estimation of Spatial Means of Random Fields . . . . . 306  
*Ewa Skubalska-Rafajłowicz and Ewaryst Rafajłowicz*

On the Diversity Order of UW-OFDM . . . . . 317  
*Heidi Steendam*

Representation and Analysis of Piecewise Linear Functions  
in Abs-Normal Form . . . . . 327  
*Tom Streubel, Andreas Griewank, Manuel Radons, and Jens-Uwe Bernt*

Efficient Smoothers for All-at-once Multigrid Methods for Poisson  
and Stokes Control Problems . . . . . 337  
*Stefan Takacs*

Continuous-Time Local Model Network for the Boost-Pressure Dynamics  
of a Turbocharger . . . . . 348  
*Christoph Weise, Kai Wulff, Marc-Hinrik Höper, and Romain Hurtado*

Erratum to: More Safe Optimal Input Signals for Parameter Estimation  
of Linear Systems Described by ODE . . . . . E1  
*Ewaryst Rafajłowicz and Wojciech Rafajłowicz*

**Author Index** . . . . . 359