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Preface

This volume presents papers collected on the occasion of the 12th Workshop on Stochastic Models, Statistics and Their Applications, jointly organized by the Institute of Mathematics and Computer Science of Wrocław University of Technology, the Institute of Computer Engineering, Control and Robotics, Wrocław University of Technology, and by the Institute of Statistics of RWTH Aachen University. This German series of workshops has been frequently held together with research groups from Poland, i.e. as German–Polish events. It has become more and more international and takes place at Wrocław for the second time.

We would like to thank the following colleagues who accepted our invitation to organize an invited session: Marco Burkschat (Aachen), Maik Döring (Hohenheim), Dietmar Ferger (Dresden), Elżbieta Ferenstein (Warsaw), Josef Högel (Ulm), Hajo Holzmann (Marburg), Piotr Jaworski (Warsaw), Uwe Jensen (Hohenheim), Sven Knoth (Hamburg), Wolfgang Kössler (Berlin), Jacek Koronacki (Warsaw), Adam Krzyżak (Montreal), Eckhard Liebscher (Merseburg), Ryszard Magiera (Wrocław), Mirek Pawlak (Winnipeg), Rainer Schwabe (Magdeburg), Wolfgang Schmid (Frankfurt Oder) Krzysztof Szajowski (Wrocław), Darus Uciński (Zielona Góra), Christian Weiss (Hamburg), Aleksander Weron (Wrocław) and Rafał Weron (Wrocław).

In order to prepare a volume representing the state of the art as well as most recent trends in active research areas related to the workshop topics, we asked the session organizers to invite their speakers and submit full papers. All submitted papers undergone an intensive and critical peer-review process by members of the program committee, session organizers and other recognized international experts, but the authors are entirely responsible for the content and final form of the papers. The editors would like to thank the colleagues who joined us as members of the proceedings’ program committee and helped us in handling and reviewing the papers: Marco Burkschat (Aachen), Uwe Jensen (Hohenheim), Waltraud Kahle (Magdeburg) and Sven Knoth (Hamburg). We are also indebted to the excellent and prompt work of other referees. They did an excellent job and without their help it would not have been possible to finish the volume timely.
Part I presents the papers related to the invited plenary presentations held by Laszlo Györfi (Budapest University of Technology and Economics and Hungarian Academy of Sciences), Teresa Ledwina (Polish Academy of Sciences) and Marie Hůsková (Charles University of Prague). Part II collects articles about theory and related topics. Papers addressing stochastic modeling, primarily in engineering and related areas, methodological aspects and simulations are presented in Part III. Papers devoted to new algorithms, their improvement and study, or applications are provided in Part IV.

The authors who have contributed to this volume come from Austria, Brazil, Canada, Croatia, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, Japan, Netherlands, Norway, Poland, Russia, Slovak Republic, Spain and USA. It is our intention and hope that the preparation of the articles for this volume as well as the talks and discussions at the workshop deepen existing cooperations and partnerships and stimulate new collaborations.

We acknowledge the support of M.Sc. Annabel Prause who has helped us in organizing the sessions and communicating with the session organizers. Dr. Mohammed Abujarad and M.Sc. Evgenii Sovetkin handled the page proofs. Stefanie Truong carefully prepared the list of contributors and Hassan Satvat helped to set up and maintain the workshop’s website. Last but not least, we would like to thank Springer for publishing this volume. Especially, we thank Ms. Alice Blanck for her valuable cooperation and support and Mr. Frank Holzwarth for his technical assistance.

Aachen, Germany
Ansgar Steland

Wrocław, Poland
Krzysztof Szajowski

November 2014
Ewaryst Rafajłowicz

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Aachen, Germany
Ansgar Steland

Wrocław, Poland
Krzysztof Szajowski

Ewaryst Rafajłowicz

November 2014
Organization

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Ansgar Steland
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Contributors

**Jorge Alberto Achcar** Social Medicine-FMRP, University of São Paulo, São Paulo, Brazil, e-mail: achcar@fmrp.usp.br

**Daniel Ambach** Department of Business, European University Viadrina, Frankfurt Oder, Germany, e-mail: ambach@europa-uni.de

**Michał Balcerek** Institute of Mathematics and Computer Science, Wrocław University of Technology, Wrocław, Poland, e-mail: michal.balcerek@pwr.edu.pl

**Moulinath Banerjee** Department of Statistics, University of Michigan, Ann Arbor, USA, e-mail: moulib@umich.edu

**Emílio Augusto Coelho Barros** Department of Mathematics, Federal Technological University of Paraná, Cornélio Procópio, Brazil, e-mail: eabarros@utfpr.edu.br

**Kris De Brabanter** Department of Statistics, Iowa State University, Ames, USA, e-mail: kbrabant@iastate.edu

**Roy Cerqueti** Department of Economics and Management, University of Macerata, Macerata, Italy, e-mail: roy.cerqueti@unimc.it

**Hong Chen** Department of Applied Mathematics and Statistics, University Hohenheim, Stuttgart, Germany, e-mail: hong.chen@uni-hohenheim.de

**Julien Chevallier** IPAG Lab, IPAG Business School, Paris, France, e-mail: julien.chevallier04@univ-paris8.fr

**Carsten Croonenbroeck** Department of Business, European University Viadrina, Frankfurt O. Germany, e-mail: croonenbroeck@europa-uni.de

**Kai Erik Dahlen** Molde University College, Molde, Norway, e-mail: kai.e.dahlen@himolde.no

**Maik Döring** Department of Applied Mathematics and Statistics, University of Hohenheim, Stuttgart, Germany, e-mail: Maik.Doering@uni-hohenheim.de
Boris Darkhovsky  Institute for Systems Analysis, Russian Academy of Sciences, Moscow, Russia, e-mail: darbor2004@mail.ru

Thorsten Dickhaus  Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany, e-mail: Thorsten.Dickhaus@wias-berlin.de

Wenyu Du  Department of Mathematical Sciences, Binghamton University, New York, USA, e-mail: wdu1@binghamton.edu

Jason Ernst  Mathematics and Statistics, University of Guelph, Guelph, Canada, e-mail: jernst@uoguelph.ca

Paolo Falbo  Department of Economics and Management, University of Brescia, Brescia, Italy, e-mail: paolo.falbo@unibs.it

Tina Felber  Department of Mathematics, TU Darmstadt, Darmstadt, Germany, e-mail: tfelber@mathematik.tu-darmstadt.de

Robert Garthoff  Chair for Quantitative Methods, European University Viadrina, Frankfurt O., Germany, e-mail: garthoff@europa-uni.de

Stephane Goutte  Mathematical Finance, Energy Modelling and Econometrics, University of Paris, Paris, France, e-mail: stephane.goutte@univ-paris8.fr

Ulrike Graßhoff  Institute for Operations Research, Humboldt-University, Berlin, Germany, e-mail: grasshou@hu-berlin.de

Gianfranco Guastaroba  Department of Economics and Management, University of Brescia, Brescia, Italy, e-mail: gianfranco.guastaroba@unibs.it

László Györfi  Department of Computer Science and Information Theory, TU Budapest, Budapest, Hungary, e-mail: lacigyorfi@gmail.com

Radoslav Harman  Department of Applied Mathematics and Statistics, Comenius University, Bratislava, Slovak Republic, e-mail: harman@fmph.uniba.sk

Zygmunt Hasiewicz  Institute of Computer Engineering, Control and Robotics, Wrocław University of Technology, Wrocław, Poland, e-mail: zygmunt.hasiewicz@pwr.edu.pl

Heinz Holling  Department of Psychology and Sport Science, Westfälische Wilhelms – University Münster, Münster, Germany, e-mail: holling@uni-muenster.de

Šárka Hudcová  Faculty of Mathematics and Physics, Charles University in Prague, Prague, Czech Republic, e-mail: hudecova@karlin.mff.cuni.cz

Ronald Huisman  Erasmus School of Economics, Erasmus University, Rotterdam, The Netherlands, e-mail: rhuisman@ese.eur.nl

Marie Hušková  Faculty of Mathematics and Physics, Charles University in Prague, Prague, Hungary, e-mail: huskova@karlin.mff.cuni.cz

Matylda Jabłońska-Sabuka  Lappeenranta University of Technology, Lappeenranta, Finland, e-mail: matylda.jablonska-sabuka@lut.fi
Uwe Jensen  Institute of Applied Mathematics and Statistics, University of Hohenheim, Stuttgart, Germany, e-mail: Jensen@uni-hohenheim.de

Wolfgang Kößler  Institute for Informatics, Humboldt-University, Berlin, Germany, e-mail: koessler@informatik.hu-berlin.de

Takashi Kanamura  Graduate School of Advanced Integrated Studies in Human Survivability, Kyoto University, Kyoto, Japan, e-mail: tkanamura@gmail.com

Michael Kohler  Department of Mathematics, TU Darmstadt, Darmstadt, Germany, e-mail: kohler@mathematik.tu-darmstadt.de

Adam Krzyżak  Department of Computer Science and Software Engineering, Concordia University, Montreal, Canada, e-mail: krzyzak@cs.concordia.ca

Anna Ławniczak  Mathematics and Statistics, University of Guelph, Guelph, Canada, e-mail: alawnicz@uoguelph.ca

Teresa Ledwina  Department of Mathematical Statistics, Polish Academy of Science, Warszawa, Poland, e-mail: ledwina@impan.pan.wroc.pl

Urszula Libal  Institute of Computer Engineering, Control and Robotics, Wrocław University of Technology, Wrocław, Poland, e-mail: urszula.libal@pwr.edu.pl

Eckhard Liebscher  Department of Computer Science and Communication Systems, University of Applied Sciences Merseburg, Merseburg, Germany, e-mail: eckhard.liebscher@hs-merseburg.de

Yu Liu  Computer Science Department, Iowa State University, Ames, USA, e-mail: yuliu@iastate.edu

Henryk Maciejewski  Computer and Discrete Systems Group, Wrocław University of Technology, Wrocław, Poland, e-mail: henryk.maciejewski@pwr.wroc.pl

Katarzyna Maciejowska  Institute of Organization and Management, Wrocław University of Technology, Wrocław, Poland, e-mail: kmaciejo@gmail.com

Michal Marczyk  Institute of Informatics, Silesian University of Technology, Gliwice, Poland, e-mail: michal.marczyk@polsl.pl

Edson Zangiacomi Martinez  Department of Social Medicine, University of São Paulo, São Paulo, Brazil, e-mail: edson@fmrp.usp.br

Josmar Mazucheli  Department of Statistics, UEM, Maringá, Brazil, e-mail: jmazucheli@uem.br

Simos Meintanis  Department of Economics, National and Kapodistrian University of Athens, Athens, Greece, e-mail: simosmei@econ.uoa.gr

George Michailidis  Department of Statistics, University of Michigan, Ann Arbor, USA, e-mail: gmic@umich.edu

Jan Mielniczuk  Faculty of Mathematics and Information Science, Warsaw University of Technology, Warsaw, Poland, e-mail: miel@ipipan.waw.pl
Tobias Andreas Möller  Mathematics and Statistics, Helmut-Schmidt-University, Hamburg, Germany, e-mail: moellert@hsu-hh.de

Grzegorz Mzyk  Department of Control and Optimization, Wrocław University of Technology, Wroclaw, Poland, e-mail: Grzegorz.Mzyk@pwr.edu.pl

Philipp Otto  Chair for Quantitative Methods, European University Viadrina, Frankfurt O., Germany, e-mail: potto@europa-uni.de

Maciej Patan  Institute of Control and Computation Engineering, University of Zielona Góra, Zielona Góra, Poland, e-mail: m.patan@issi.uz.zgora.pl

Cristian Pelizzari  Department of Economics and Management, University of Brescia, Brescia, Italy, e-mail: cristian.pelizzari@unibs.it

Elisa Perrone  Department of Applied Statistics, Johannes Kepler University of Linz, Linz, Austria, e-mail: elisa.perrone@jku.at

Monika Pietrowska  Center for Translational Research and Molecular Biology of Cancer, Gliwice, Poland, e-mail: m_pietrowska@io.gliwice.pl

Alexandra Piryatinska  Department of Mathematics, San Francisco State University, San Francisco, USA, e-mail: alpiryat@sfsu.edu

Joanna Polańska  Institute of Informatics, Silesian University of Technology, Gliwice, Poland, e-mail: joanna.polanska@polsl.pl

Andrzej Polański  Institute of Informatics, Silesian University of Technology, Gliwice, Poland, e-mail: andrzej.polanski@polsl.pl

Aleksey Polunchenko  Department of Mathematical Sciences, Binghamton University, New York, USA, e-mail: aleksey@binghamton.edu

Zuzana Práškova  Faculty of Mathematics and Physics, Charles University in Prague, Prague, Czech Republic, e-mail: praskova@karlin.mff.cuni.cz

Annabel Prause  Institute of Statistics, RWTH Aachen University, Aachen, Germany, e-mail: Prause@stochastik.rwth-aachen.de

Pedro Puig  Department of Mathematics, University of Barcelona, Barcelona, Spain, e-mail: ppuig@mat.uab.cat

Ewaryst Rafajłowicz  Institute of Computer Engineering, Control and Robotics, Wrocław University of Technology, Wrocław, Poland, e-mail: ewaryst.rafajłowicz@pwr.edu.pl

Adam Romanek  Institute of Control and Computation Engineering, University of Zielona Góra, Zielona Góra, Poland, e-mail: m.patan@issi.uz.zgora.pl

Guillaume Sagnol  Mathematical Optimization and Scientific Information, ZIB Berlin, Berlin, Germany, e-mail: sagnol@zib.de

Alessandro Sapio  Department of Business and Economic Studies, Parthenope University of Naples, Naples, Italy, e-mail: alessandro.sapio@uniparthenope.it
**Rainer Schwabe** Institute for Mathematical Stochastics, Otto-von-Guericke-University, Magdeburg, Germany, e-mail: rainer.schwabe@ovgu.de

**Sebastian Schweer** Institute of Applied Mathematics, Heidelberg University, Heidelberg, Germany, e-mail: schwar@uni-heidelberg.de

**Ewa Skubalska-Rafajłowicz** Institute of Computer Engineering, Control and Robotics, Wrocław University of Technology, Wrocław, Poland, e-mail: ewa.rafajłowicz@pwr.wroc.pl

**Przemysław Śliwiński** Institute of Computer Engineering, Control and Robotics, Wrocław University of Technology, Wrocław, Poland, e-mail: przemyslaw.sliwinski@pwr.edu.pl

**Grigory Sokolov** Department of Mathematical Sciences, Binghamton University, New York, USA, e-mail: gsokolov@binghamton.edu

**Moudar Soumaya** Institute for Mathematical Stochastics, Otto-von-Guericke-University, Magdeburg, Germany, e-mail: moudar.soumaya@ovgu.de

**Roberto Souza** Department of Mathematics/Department of Social Medicine, Federal Technological University of Paraná, Paraná, Brazil, e-mail: rmolinasouza@utfpr.edu.br

**Bruno Di Stefano** Nuptek Systems Ltd., Canada, e-mail: bruno.distefano@nupteksystems.com

**Ansgar Steland** Institute of Statistics, RWTH Aachen University, Aachen, Germany, e-mail: Steland@stochastik.rwth-aachen.de

**Krzysztof Szajowski** Institute of Mathematics and Computer Science, Wrocław University of Technology, Wrocław, Poland, e-mail: Krzysztof.Szajowski@pwr.edu.pl

**Hubert Szymański** Polish Academy of Science, Warsaw, Poland, e-mail: miel@ipipan.waw.pl

**Ivana Tomas Žiković** Faculty of Economics, University of Rijeka, Rijeka, Croatia, e-mail: itomas@efri.hr

**Dariusz Uciński** Institute of Control and Computation Engineering, University of Zielona Góra, Zielona Góra, Poland, e-mail: d.ucinski@issi.uz.zgora.pl

**Paweł Wachel** Institute of Computer Engineering, Control and Robotics, Wrocław University of Technology, Wrocław, Poland, e-mail: pawel.wachel@pwr.edu.pl

**Christian Weiß** Mathematics and Statistics, Helmut-Schmidt-University, Hamburg, Germany, e-mail: weissc@hsu-hh.de

**Aleksander Weron** Hugo Steinhaus Center, Wrocław University of Technology, Wrocław, Poland, e-mail: aleksander.weron@pwr.edu.pl
Contributors

**Rafał Weron**  Institute of Organization and Management, Wrocław University of Technology, Wrocław, Poland, e-mail: rafal.weron@pwr.edu.pl

**Sjur Westgaard**  Department of Industrial Economics, Norwegian University of Science and Technology, Trondheim, Norway, e-mail: sjur.westgaard@iot.ntnu.no

**Piotr Widłak**  Center for Translational Research and Molecular Biology of Cancer, Gliwice, Poland, e-mail: widlak@io.gliwice.pl

**Agnieszka Wyłomanska**  Institute of Mathematics and Computer Science, Wrocław University of Technology, Wrocław, Poland, e-mail: agnieszka.wylomanska@pwr.wroc.pl

**Elena Yudovina**  Department of Mathematics, University of Minnesota, Minneapolis, USA, e-mail: eyudovin@umn.edu

**Florian Ziel**  Chair for Quantitative Methods, European University Viadrina, Frankfurt O. Germany, e-mail: ziel@europa-uni.de

**Sasa Zikovic**  Faculty of Economics, University of Rijeka, Rijeka, Croatia, e-mail: szikovic@efri.hr

**Radosław Zimroz**  Institute of Mining Engineering, Wrocław University of Technology, Wrocław, Poland, e-mail: radoslaw.zimroz@pwr.edu.pl