



# DAGSTUHL REPORTS

## Volume 5, Issue 8, August 2015

Power-Bounded HPC Performance Optimization (Dagstuhl Perspectives Workshop 15342) <i>Dieter Kranzlmüller and Barry L. Rountree</i> .....	1
Computational Mass Spectrometry (Dagstuhl Seminar 15351) <i>Rudolf Aebersold, Oliver Kohlbacher, and Olga Vitek</i> .....	9
Design of Microfluidic Biochips: Connecting Algorithms and Foundations of Chip Design to Biochemistry and the Life Sciences (Dagstuhl Seminar 15352) <i>Krishnendu Chakrabarty, Tsung-Yi Ho, and Robert Wille</i> .....	34
Mathematical and Computational Foundations of Learning Theory (Dagstuhl Seminar 15361) <i>Matthias Hein, Gabor Lugosi, and Lorenzo Rosasco</i> .....	54
Present and Future of Formal Argumentation (Dagstuhl Perspectives Workshop 15362) <i>Dov M. Gabbay, Massimiliano Giacomin, Beishui Liao, and Leendert van der Torre</i>	74

## ISSN 2192-5283

### *Published online and open access by*

Schloss Dagstuhl – Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, Saarbrücken/Wadern, Germany. Online available at <http://www.dagstuhl.de/dagpub/2192-5283>

### *Publication date*

January, 2016

### *Bibliographic information published by the Deutsche Nationalbibliothek*

The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at <http://dnb.d-nb.de>.

### *License*

This work is licensed under a Creative Commons Attribution 3.0 DE license (CC BY 3.0 DE).



In brief, this license authorizes each and everybody to share (to copy, distribute and transmit) the work under the following conditions, without impairing or restricting the authors' moral rights:

- Attribution: The work must be attributed to its authors.

The copyright is retained by the corresponding authors.

### *Aims and Scope*

The periodical *Dagstuhl Reports* documents the program and the results of Dagstuhl Seminars and Dagstuhl Perspectives Workshops.

In principal, for each Dagstuhl Seminar or Dagstuhl Perspectives Workshop a report is published that contains the following:

- an executive summary of the seminar program and the fundamental results,
- an overview of the talks given during the seminar (summarized as talk abstracts), and
- summaries from working groups (if applicable).

This basic framework can be extended by suitable contributions that are related to the program of the seminar, e. g. summaries from panel discussions or open problem sessions.

### *Editorial Board*

- Bernd Becker
- Stephan Diehl
- Hans Hagen
- Hannes Hartenstein
- Oliver Kohlbacher
- Stephan Merz
- Bernhard Mitschang
- Bernhard Nebel
- Bernt Schiele
- Nicole Schweikardt
- Raimund Seidel (*Editor-in-Chief*)
- Arjen P. de Vries
- Michael Waidner
- Reinhard Wilhelm

### *Editorial Office*

Marc Herbstritt (*Managing Editor*)  
Jutka Gasiorowski (*Editorial Assistance*)  
Thomas Schillo (*Technical Assistance*)

### *Contact*

Schloss Dagstuhl – Leibniz-Zentrum für Informatik  
Dagstuhl Reports, Editorial Office  
Oktavie-Allee, 66687 Wadern, Germany  
[reports@dagstuhl.de](mailto:reports@dagstuhl.de)  
<http://www.dagstuhl.de/dagrep>

Digital Object Identifier: 10.4230/DagRep.5.8.i