



# DAGSTUHL REPORTS

## Volume 1, Issue 1, January 2011

Multi-Core Memory Models and Concurrency Theory (Dagstuhl Seminar 11011) <i>Hans J. Boehm, Ursula Goltz, Holger Hermanns and Peter Sewell</i> .....	1
Feature-Oriented Software Development (FOSD) (Dagstuhl Seminar 11021) <i>Sven Apel, William Cook, Krzysztof Czarnecki and Oscar Nierstrasz</i> .....	27
Bidirectional Transformation “bx” (Dagstuhl Seminar 11031) <i>Zhenjiang Hu, Andy Schürr, Perdita Stevens and James Terwilliger</i> .....	42
Multimodal Music Processing (Dagstuhl Seminar 11041) <i>Meinard Müller, Masataka Goto and Simon Dixon</i> .....	68
Learning from the Past: Implications for the Future Internet and its Management? (Dagstuhl Seminar 11042) <i>Gabi Dreo Rodosek, Aiko Pras, Henning Schulzrinne and Burkhard Stiller</i> .....	102
Sparse Representations and Efficient Sensing of Data (Dagstuhl Seminar 11051) <i>Stephan Dahlke, Michael Elad, Yonina Eldar, Gitta Kutyniok and Gerd Teschke</i> .	108

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/dagrep>

*Publication date*

June, 2011

*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-NonCommercial-NoDerivs 3.0 Unported license: CC-BY-NC-ND.



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.
- Noncommercial: The work may not be used for commercial purposes.
- No derivation: It is not allowed to alter or transform this work.

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*

- Susanne Albers
- Bernd Becker
- Karsten Berns
- Stephan Diehl
- Hannes Hartenstein
- Frank Leymann
- Stephan Merz
- Bernhard Nebel
- Han La Poutré
- Bernt Schiele
- Nicole Schweikardt
- Raimund Seidel
- Gerhard Weikum
- Reinhard Wilhelm (*Editor-in-Chief*)

*Editorial Office*

Marc Herbstritt (*Managing Editor*)  
Jutka Gasirowski (*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)

Digital Object Identifier: 10.4230/DagRep.1.1.i

[www.dagstuhl.de/dagrep](http://www.dagstuhl.de/dagrep)