



DAGSTUHL
REPORTS

Volume 14, Issue 4, April 2024

Network Calculus (Dagstuhl Seminar 24141) <i>Steffen Bondorf, Anne Bouillard, Markus Fidler, and Jörg Liebeherr</i>	1
Methods and Tools for the Engineering and Assurance of Safe Autonomous Systems (Dagstuhl Seminar 24151) <i>Ignacio J. Alvarez, Philip Koopman, Mario Trapp, and Elena Troubitsyna</i>	23
Research Software Engineering: Bridging Knowledge Gaps (Dagstuhl Seminar 24161) <i>Stephan Druskat, Lars Grunske, Caroline Jay, and Daniel S. Katz</i>	42
Hardware Support for Cloud Database Systems in the Post-Moore's Law Era (Dagstuhl Seminar 24162) <i>David F. Bacon, Carsten Binnig, David Patterson, and Margo Seltzer</i>	54
Automated Synthesis: Functional, Reactive and Beyond (Dagstuhl Seminar 24171) <i>S. Akshay, Bernd Finkbeiner, Kuldeep S. Meel, and Ruzica Piskac</i>	85
Code Search (Dagstuhl Seminar 24172) <i>Satish Chandra, Michael Pradel, and Kathryn T. Stolee</i>	108
Computational Metabolomics: Towards Molecules, Models, and their Meaning (Dagstuhl Seminar 24181) <i>Timothy M. D. Ebbels, Soha Hassoun, Ewy A. Mathé, and Justin J. J. van der Hooft</i>	124
Resilience and Antifragility of Autonomous Systems (Dagstuhl Seminar 24182) <i>Simon Burton, Radu Calinescu, and Raffaela Mirandola</i>	142

ISSN 2192-5283

Published online and open access by

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

Publication date

October, 2024

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
<https://dnb.d-nb.de>.

License

This work is licensed under a Creative Commons Attribution 4.0 International license (CC BY 4.0).



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

- Elisabeth André
- Franz Baader
- Goetz Graefe
- Reiner Hähnle
- Barbara Hammer
- Lynda Hardman
- Steve Kremer
- Rupak Majumdar
- Heiko Mantel
- Lennart Martens
- Albrecht Schmidt
- Wolfgang Schröder-Preikschat
- Raimund Seidel (*Editor-in-Chief*)
- Heike Wehrheim
- Verena Wolf
- Martina Zitterbart

Editorial Office

Michael Wagner (*Managing Editor*)

Michael Didas (*Managing Editor*)

Jutka Gasiorowski (*Editorial Assistance*)

Dagmar Glaser (*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

<https://www.dagstuhl.de/dagrep>