



DAGSTUHL
ARTIFACTS SERIES

Volume 1 | Issue 1 | November 2015

**Special Issue of the 29th European Conference on
Object-Oriented Programming (ECOOP'15)**

Edited by

Camil Demetrescu

Matthew Flatt

Editors

Camil Demetrescu
Sapienza University of Rome
Rome, Italy
demetres@dis.uniroma1.it

Matthew Flatt
University of Utah
Salt Lake City, UT, USA
mflatt@cs.utah.edu

Published online and open access by

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

Publication date

November 2015

License

This work is licensed under a Creative Commons Attribution 3.0 Germany license (CC BY 3.0 DE): <http://creativecommons.org/licenses/by/3.0/de/deed.en>.



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 Dagstuhl Artifacts Series (DARTS) publishes evaluated research data and artifacts in all areas of computer science. An artifact can be any kind of content related to computer science research, e.g., experimental data, source code, virtual machines containing a complete setup, test suites, or tools.

Editorial Office

Michael Wagner (*Managing Editor*)
Marc Herbstritt (*Managing Editor*)
Jutka Gasiorowski (*Editorial Assistance*)
Dagmar Glaser (*Editorial Assistance*)
Thomas Schillo (*Technical Assistance*)

Contact

Schloss Dagstuhl – Leibniz-Zentrum für Informatik
DARTS, Editorial Office
Oktavie-Allee, 66687 Wadern, Germany
publishing@dagstuhl.de

<http://www.dagstuhl.de/darts>

Digital Object Identifier

10.4230/DARTS.1.1.0

■ Contents

Artifacts

<i>TreatJS</i> : Higher-Order Contracts for JavaScript (Artifact) <i>Matthias Keil and Peter Thiemann</i>	1:1–1:2
Transparent Object Proxies for JavaScript (Artifact) <i>Matthias Keil, Sankha Narayan Guria, Andreas Schlegel, Manuel Geffken, and Peter Thiemann</i>	2:1–2:2
A Theory of Tagged Objects (Artifact) <i>Joseph Lee, Jonathan Aldrich, Troy Shaw, Alex Potanin, and Benjamin Chung</i> ...	3:1–3:3
Brand Objects for Nominal Typing (Artifact) <i>Timothy Jones, Michael Homer, and James Noble</i>	4:1–4:2
Optimization Coaching for JavaScript (Artifact) <i>Vincent St-Amour and Shu-yu Guo</i>	5:1–5:2
The Eureka Programming Model for Speculative Task Parallelism (Artifact) <i>Shams Imam and Vivek Sarkar</i>	6:1–6:2
The Love/Hate Relationship with the C Preprocessor: An Interview Study (Artifact) <i>Flávio Medeiros, Christian Kästner, Márcio Ribeiro, Sarah Nadi, and Rohit Gheyi</i>	7:1–7:32
A Pattern Calculus for Rule Languages: Expressiveness, Compilation, and Mechanization (Artifact) <i>Avraham Shinnar, Jérôme Siméon, and Martin Hirzel</i>	8:1–8:2
Streams à la carte: Extensible Pipelines with Object Algebras (Artifact) <i>Aggelos Biboudis, Nick Palladinos, George Fourtounis, and Yannis Smaragdakis</i> ..	9:1–9:2
Lightweight Support for Magic Wands in an Automatic Verifier (Artifact) <i>Malte Schwerhoff and Alexander J. Summers</i>	10:1–10:2
Framework for Static Analysis of PHP Applications (Artifact) <i>David Hauzar and Jan Kofroň</i>	11:1–11:2
Scalable and Precise Static Analysis of JavaScript Applications via Loop-Sensitivity (Artifact) <i>Changhee Park and Sukyoung Ryu</i>	12:1–12:2

