

2017 Imperial College Computing Student Workshop

ICCSW 2017, September 26–27, 2017, London, United Kingdom

Edited by

**Fergus Leahy
Juliana Franco**



ICCSW17

Editors

Fergus Leahy Department of Computing 180 Queen's Gate, London, SW7 2AZ United Kingdom fergus.leahy@imperial.ac.uk	Juliana Franco Department of Computing 180 Queen's Gate, London SW7 2AZ United Kingdom j.vicente-franco@imperial.ac.uk
--	---

ACM Classification 1998

D.1.3 Concurrent Programming, D.2.2 Design Tools and Techniques, D.2.8 Performance measures, D.2.11 Software Architectures, D.3.3 - Language Constructs and Features, D.4.7 Distributed systems, D.4.8 Performance, E.1 Trees, F.1.2. Models of Computation - Probabilistic Computation, F.4.1. Mathematical Logic, F.4.2. Formal Languages, G.1.6 Optimization, G.3 Probability and Statistics, H.2.4 Concurrency, H.5.2 User Interfaces, I.2.6 Learning, K.0 General, K.2 History of Computing.

ISBN 978-3-95977-059-0

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/978-3-95977-059-0>.

Publication date
February 2018

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 Unported license (CC-BY 3.0):
<http://creativecommons.org/licenses/by/3.0/legalcode>.

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.



Digital Object Identifier: 10.4230/OASIcs.ICCSW.2017.0

ISBN 978-3-95977-059-0

ISSN 1868-8969

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

Contents

Keynotes

How to Write a Great Research Paper <i>Simon Peyton Jones</i>	1:1–1:1
Optimizing the Unoptimizable: A Whirlwind Tour of JavaScript <i>Leszek Swirski</i>	2:1–2:1

Regular Papers

Improving the Latency and Throughput of ZooKeeper Atomic Broadcast <i>Ibrahim EL-Sanosi and Paul Ezhilchelvan</i>	3:1–3:10
Demand for Medical Care by the Elderly: A Nonparametric Variational Bayesian Mixture Approach <i>Christoph F. Kurz and Rolf Holle</i>	4:1–4:7
Discriminative and Generative Models for Clinical Risk Estimation: an Empirical Comparison <i>John Stamford and Chandra Kambhampati</i>	5:1–5:9
Hey there's DALILA: a DictionAry LearnIng LibrAry <i>Veronica Tozzo, Vanessa D'Amario, and Annalisa Barla</i>	6:1–6:14
Faster Concurrent Range Queries with Contention Adapting Search Trees Using Immutable Data <i>Kjell Winblad</i>	7:1–7:13

Abstracts

Gesture Recognition and Classification using Intelligent Systems <i>Norah Alnaim and Maysam Abbot</i>	8:1–8:1
KubeNow: A Cloud Agnostic Platform for Microservice-Oriented Applications <i>Marco Capuccini, Anders Larsson, Salman Toor, and Ola Spjuth</i>	9:1–9:2