

Computer Science Logic 2018

CSL 2018, September 4–8, 2018, Birmingham, United Kingdom

Edited by

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Editors

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27th EACSL Annual Conference on Computer Science Logic.

Editors: Dan R. Ghica and Achim Jung



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■ Preface

Computer Science Logic (CSL) is the annual conference of the European Association for Computer Science Logic (EACSL). It is an interdisciplinary conference, spanning across both basic and application oriented research in mathematical logic and computer science. CSL started as a series of international workshops on Computer Science Logic, and became at its sixth meeting the Annual Conference of the EACSL.

The 27th annual EACSL conference Computer Science Logic (CSL 2018) was held in Birmingham (UK) from September 4 to September 7, 2018. It was hosted by the School of Computer Science of the University of Birmingham, and held on its Edgbaston campus.

The conference received 100 abstracts of which 86 were followed up by paper submissions. Each paper was assigned for reviewing to at least three programme committee members, assisted by 132 external reviewers. The reviewing process consisted of two stages. First, submissions with potential technical problems or deemed not original enough were rejected. Less than 15% of submissions fell into this category. Of the remaining papers the 36 submissions deemed as the most interesting were selected for presentation at the conference and publication in these proceedings. The number was dictated by the duration of the conference and individual talks. All papers deemed “very interesting” by at least two members of the PC were accepted, while each accepted paper was deemed as “very interesting” by at least one member.

The invited speakers for this conference were:

- Bob Coecke, University of Oxford
- Emmanuel Filiot, Université libre de Bruxelles
- Catuscia Palamidessi, École polytechnique (Paris-Saclay)
- Christine Tasson, Université Paris Diderot
- Szymon Toruńczyk, Uniwersytet Warszawski

A special regular item in the CSL programme is the *Ackermann Award* presentation. This is the EACSL Outstanding Dissertation Award for Logic in Computer Science. This year, the jury decided to give the Ackermann Award for 2018 to Amina Doumane for her thesis *On the Infinitary Proof Theory of Logics with Fixed Points*. The award was officially presented at the conference on September 7, 2018. The citation of the award, an abstract of the thesis and a biographical sketch of the recipient is included in the proceedings.

We wish to thank all members of the programme committee and all external reviewers for their hard and highly professional work on reviewing and discussing the papers. Our thanks also go to Marco Devesas Campos for maintaining the conference web site and publicising the conference. We also wish to thank Thomas Schwentick who, as the EACSL president, provided useful guidance. Michael Wagner from the Dagstuhl/LIPIcs team assisted us in the production of the proceedings, for which we are grateful.

The conference also hosted the workshop *An Intersection of Neighbourhoods* which took place the day after, September 8th. The workshop, organised by Dan Ghica on behalf of the School of Computer Science of the University of Birmingham, was dedicated to Achim Jung’s contributions to research in domain theory, topological logic, programming language semantics, and computer science education, on the occasion of his 60th birthday. The invited speakers were Samson Abramsky (University of Oxford), Thorsten Altenkirch (University



of Nottingham), Mai Gehrke (Université Côte d'Azur), Michael Huth (Imperial College London), Ho Weng Kin (Nanyang Technological University), Jimmie Lawson (Louisiana State University), Michael Mislove (Tulane University), Frank Pfenning (Carnegie Mellon University), and Alex Simpson (University of Ljubljana).

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