

18th International Conference on Relational and Algebraic Methods in Computer Science

RAMICS 2020

LIX, École polytechnique, Palaiseau, 8–11 April 2020



Since 1994 the RAMICS conference series has been the main venue for research on relation algebras, Kleene algebras and similar algebraic formalisms, and their applications as conceptual and methodological tools in computer science and beyond.

Theoretical aspects include semigroups, residuated lattices, semirings, Kleene algebras, relation algebras, quantales and other algebras; their connections with program logics and other logics; their use in the theories of automata, concurrency, formal languages, games, networks and programming languages; the development of algebraic, algorithmic, category-theoretic, coalgebraic and proof-theoretic methods for these theories; their formalisation with theorem provers.

Applications include tools and techniques for program correctness, specification and verification; quantitative and qualitative models and semantics of computing systems and processes; algorithm design, automated reasoning, network protocol analysis, social choice, optimisation and control.

Call for Papers

We invite original submissions in the general field of algebraic structures relevant to computer science and on applications of such algebras. Submissions must be unpublished, not under review for publication elsewhere and provide sufficient information to judge their merits.

The proceedings of RAMICS 2020 will be published in an LNCS volume by Springer. As for earlier RAMICS conferences, we intend to publish a journal special issue with revised and extended versions of a selection of the best papers.

Important Dates

Abstract Submission: **20 October 2019**
Paper Submission: **27 October 2019**
Author Notification: 15 December 2019

Invited Talks



Christel Baier
Technische Universität Dresden
Germany

Manfred Droste
Universität Leipzig
Germany



Daniela Petrisan
Université Paris Diderot
France

Organization

Peter Jipsen, Chapman University, USA
Michael Winter, Brock University, Canada
Uli Fahrenberg, École polytechnique, France

Program Committee

Roland Backhouse, Rudolf Berghammer, Manuel Bodirsky, Jules Desharnais, Amina Doumane, Hitoshi Furusawa, Mai Gehrke, Walter Guttman, Robin Hirsch, Peter Höfner, Marcel Jackson, Jean-Baptiste Jeannin, Stef Joosten, Wolfram Kahl, Dexter Kozen, Tadeusz Litak, Wendy MacCaull, Roger Maddux, Annabelle McIver, Szabolcs Mikulas, Ali Mili, Jose Oliveira, Alessandra Palmigiano, Damien Pous, Mehrnoosh Sadrzadeh, Luigi Santocanale, John Stell, Georg Struth

<http://ramics-conference.org/>