

21st International Conference on Relational and Algebraic Methods in Computer Science

RAMICS 2024

Charles University, Prague, 19-23 August 2024

Collocated with AiML



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 Submissions must be unpublished, not under review for publication elsewhere and provide sufficient information to judge their merits.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 2024 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 (extended): **16 March 2024**

Paper Submission (extended): **23 March 2024**

Author Notification: 21 May 2024

Invited Speakers



Tomasz Kowalski

Jagiellonian University in Kraków
Poland



Sarah Winter

IRIF, Université Paris Cité
France



Sergey Goncharov

University of Erlangen & Nürnberg
Germany

Organization

Uli Fahrenberg, EPITA, France

Wesley Fussner, Czech Academy of Sciences,
Prague, Czechia

Roland Glück, German Aerospace Center,
Augsburg, Germany

Program Committee

Roland Backhouse, Manuel Bodirsky, Xavier Caicedo Ferrer, Willem Conradie, Jules Desharnais, Jérémy Dubut, Marie Fortin, Hitoshi Furusawa, Valentin Goranko, Walter Guttmann, Robin Hirsch, Peter Höfner, Sebastiaan Joosten, Wolfram Kahl, Tobias Kappé, Roger Maddux, Dale Miller, Luigi Santocanale, Ana Sokolova, Jiří Srba, Sara Ugolini, Jana Wagemaker, Michael Winter, Krzysztof Ziemiański

<https://ramics-conf.github.io/2024/>