Open Call for Papers

Special Issue of the
Journal of Logical and Algebraic Methods in Programming (JLAMP)

Relational and Algebraic Methods in Computer Science

Important Dates

Submission Deadline: 31 March 2019
Notification of Acceptance: late 2019/early 2020

Topics

Relational and algebraic methods belong to the core of computer science. This special issue aims to showcase the variety and relevance of recent developments in this field ranging from theory to applications.

We invite submissions of high-quality original research articles in the general fields of algebras relevant to computer science and applications of such algebras. Topics include but are not limited to:

Theory

* algebras such as semigroups, residuated lattices, semirings, Kleene algebras, relation algebras and quantales;
* their connections with program logics and other logics;
* their formalisation with theorem provers;
* 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.

Applications

* 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;
* industrial applications.

While we welcome substantially extended versions of papers published in the proceedings of the RAMiCS 2018 conference (Springer LNCS 11194, https://www.springer.com/gp/book/9783030021481), this call is open to anyone interested in the field of relational and algebraic methods.

Submission Instructions

All submissions will be evaluated solely with respect to their novelty, significance and technical quality according to the high standards of JLAMP. They must be in PDF format, adhere to the standard JLAMP guide for authors

> https://www.elsevier.com/journals/journal-of-logical-and-algebraic-methods-in-programming/2352-2208/guide-for-authors

and be uploaded on Elsevier's online EVISE system

> https://www.evise.com/profile/#/JLAMP/login

selecting the issue type

> VSI: RAMiCS 2018

Deviation from these requirements may lead to immediate rejection.

Guest Editors

Jules Desharnais	Université Laval, Canada
Walter Guttmann	University of Canterbury, New Zealand
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