

Call for Papers

15th International Conference on Relational and Algebraic Methods in Computer Science (RAMiCS 2015)

28 September – 1 October 2015, Braga, Portugal

<http://ramics2015.di.uminho.pt/>

Important Dates

Abstract Deadline:	Mar. 18, 2015
Paper Submission Deadline:	Mar. 26, 2015
Notification of Acceptance:	Jun. 5, 2015
Camera-ready Papers Due:	Jul. 10, 2015

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Scope

We invite submissions in the general area of **Relational** and **Algebraic Methods in Computer Science**. Special focus will lie on formal methods for software engineering, logics of programs and links with neighbouring disciplines. Particular topics of interest for the conference cover, but are not limited to:

Algebraic approaches to

- specification, development, verification, and analysis of programs and algorithms
- computational logic, in particular logics of programs, modal and dynamic logics, interval and temporal logics
- semantics of programming languages

Applications in fields such as

- relational formal methods such as B, Alloy or Z, tabular methods
- information systems
- graph theory and combinatorial optimisation
- games, automata and language theory
- spatio-temporal reasoning, knowledge acquisition
- preference and scaling methods, computational social choice, social software

Theoretical foundations and supporting tools, including

- mechanised and automated reasoning, decision procedures
- process algebras, fixed point calculi, idempotent semirings, quantales, allegories
- dynamic algebras, cylindric algebras and their applications in computing

History

Since 1994, the **ReLMiCS** meetings on Relational Methods in Computer Science have been a main forum for researchers who use the calculus of relations and similar algebraic formalisms as methodological and conceptual tools. The **AKA** workshop series on Applications of Kleene algebra started with a Dagstuhl seminar in 2001 and was co-organised with the ReLMiCS conference until 2009. Since 2011, joint **RAMiCS** conferences continue to encompass the scope of both ReLMiCS and AKA.

The predecessors of this conference were held in Dagstuhl (Jan. 1994), Parati (Sept. 1995), Hammamet (Jan. 1997), Warsaw (Sept. 1998), Québec (Jan. 2000), Dagstuhl (Feb. 2001), Oisterwijk (Oct. 2001), Malente (April 2003), St. Catherines (Jan. 2005), Manchester (Sept. 2006), Frauenwörth (April 2008), Doha (Nov. 2009), Rotterdam (June 2011), Cambridge UK (Sept. 2012) and Marienstatt im Westerwald (April 2014).

Student Program

The conference will be accompanied by a PhD training program. Details will be published in due time in a special call and on the conference website.

Proceedings and Submission

All papers will be formally reviewed. We plan to publish the proceedings in the series Lecture Notes in Computer Science ready at the conference. Submissions must be in English, in Postscript or PDF format, and provide sufficient information to judge their merits. They must be unpublished and not submitted for publication elsewhere. They should not exceed 16 pages in Springer LNCS style and must be produced with \LaTeX . Additional material may be provided by a clearly marked appendix or a reference to a manuscript on a website. This may be considered at the discretion of the PC. Deviation from these requirements may cause immediate rejection. One author of each accepted paper is expected to present the paper at the conference.

Submission is via EasyChair at <https://www.easychair.org/conferences/?conf=ramics2015>. Formatting instructions and the LNCS style files can be obtained via <http://springer.de/comp/lncs/authors.html>.

As for the earlier conferences of this series, it is also intended to publish a selection of the best papers in revised and extended form in a special issue of the Journal of Logic and Algebraic Methods in Programming (JLAMP).