

Call for Papers

Making Automated Reasoning Practical: Essays in Memory of Mark Stickel

Submission Deadline: March 1st, 2014

Aim

This is a book of collected articles presenting research in all aspects of automated reasoning, in particular the design of automated reasoning systems and their applications.

A common theme behind Mark Stickel's work was developing techniques for building better automated reasoning systems. His discoveries were ground-breaking and include AC-unification, reasoning modulo a theory, term indexing, and thorough development of the SNARK and PTPP provers. In 2002 he received the Herbrand award for all his work, the highest award in automated reasoning (<http://www.cadeinc.org/>).

We would like to honour Mark's achievements by editing a Festschrift comprised of articles in the spirit of his research approach: developing fundamental techniques driven by practical applications and informed by rigorous theory.

Scope

We invite high-quality submissions on the general topic of automated reasoning and its applications, especially but not exclusively to the design of automated theorem proving systems, with connections to any of Mark Stickel's research areas:

- Automated theorem proving, including deductive and abductive reasoning
- Implementation of and practice with automated reasoners
- Algorithmics for automated reasoners: unification, matching, rewriting, indexing
- Integration of general-purpose reasoning with external procedures
- Spatial and temporal reasoning
- Inference control, theory reasoning, semantic guidance for automated reasoners
- Application of automated reasoners in mathematics, logic, program synthesis, natural language, and natural sciences
- SAT-solving
- Applications related to formal methods

Publication Details

It is planned that the book will be published as an LNAI Festschrift with Springer.

Submission Instructions

While it is expected that most of the papers will be regular technical papers, a few papers that combine scientific content with recollections of Mark Stickel's work and personality, as can be written by those who worked with him, are also sought.

All papers will be refereed by anonymous peer reviewers, and read by the editors, according to the highest standards in terms of originality, significance, technical quality, and readability.

Submissions must be in English and standard conforming pdf format. They must be unpublished and not submitted for publication elsewhere. However, significantly extended versions of papers published at conferences are welcome. Submissions of any length will be considered, but final versions may be limited by the editors depending on the totality of submissions. Authors are strongly encouraged to produce their papers in LaTeX. Formatting instructions and the LNCS style files can be obtained via <http://www.springer.de/comp/lncs/authors.html>. Electronic submission via EasyChair is open at <https://www.easychair.org/conferences/?conf=festschriftmarkstick>.

The submission deadline is March 1st, 2014.

In order to facilitate the planning of the book, authors are invited to notify the editors as soon as possible of their intention to submit with proposed topic and length. Early submission would be especially helpful for completing the review process sooner.

Editors

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