

Temur Kutsia

FSCD Steering Committee Election 2020

Election statement

I considered RTA my home conference, regularly attended it, and organized its 2008 edition at RISC in Hagenberg. After merging RTA and TLCA, my enthusiasm extended to FSCD and I will be glad to contribute to its success.

My vision about FSCD is that it should be a forum where researchers from the rewriting and lambda calculus communities feel at home, present their best results, share ideas, initiate collaborations. If elected, I will work to keep the conference open both to the traditional topics and novel developments with a broader scope, ranging from foundations to applications, being a system- and formalization-friendly event, hosting a variety of specialized workshops, meetings, and tutorials. I think it is beneficial to collocate FSCD from time to time with deduction- or computation-oriented conferences such as e.g., CADE, IJCAR, ICFP, ISSAC, and some other related events.

Short bio and selected publications

I studied mathematics at Tbilisi State University (TSU), Georgia. After graduation, I worked as a junior researcher at the Institute of Applied Mathematics of TSU, and obtained a Candidate of Sciences degree. After that, I moved to Austria, to the Research Institute for Symbolic Computation (RISC) of the Johannes Kepler University Linz (JKU), where I earned a PhD (Dr. techn.) degree in 2002 and habilitation in 2011. Currently, I am a docent at JKU.

In the past 15 years, I have been involved in more than 60 PCs (among them in RTA, PPDP, LPAR); was a member of steering committees of SCSS (co-chair), MACIS, UNIF, PPDP; (co)-organized more than 20 international scientific events (among them RTA, PPDP, LOPSTR, RISC Summer series); taught at several international schools, including ISR and ESSLLI.

At JKU, I have been responsible for research, teaching, and student advising on topics from the scope of FSCD. I selected the papers below to illustrate my research interests, related to those topics, such as unification, anti-unification, rule-based programming, lambda and pattern calculi, automated deduction, and symbolic computation.

- D. Cerna, T. Kutsia. A generic framework for higher-order generalizations. In: H. Geuvers, editor. *Proceedings of FSCD 2019*. Vol. 131 of LIPIcs. Schloss Dagstuhl, 2019, 10:1–10:19.
- S. Alves, B. Dundua, M. Florido, T. Kutsia. Pattern-based calculi with finitary matching. *Logic Journal of IGPL*. 26(2):203–243, 2018.
- I. Kotsireas, T. Kutsia, D. Simos. Constructing orthogonal designs in powers of two: Gröbner bases meet equational unification. In: M. Fernández, editor. *Proceedings of RTA 2015*. Vol. 36 of LIPIcs. Schloss Dagstuhl, 2015, 241–256.
- T. Kutsia, J. Levy, M. Villaret. Anti-unification for unranked terms and hedges. *J. Automated Reasoning*. 52(2):155–190, 2014.
- M. Marin, T. Kutsia. Foundations of a rule-based system ρ Log. *J. Applied Non-Classical Logics*, 16(1–2):151–168, 2006.
- B. Buchberger, A. Craciun, T. Jebelean, L. Kovacs, T. Kutsia, K. Nakagawa, F. Piroi, N. Popov, J. Robu, M. Rosenkranz, W. Windsteiger. Theorema: towards computer-aided mathematical theory exploration. *J. Applied Logic*, 4:470–504, 2006.