

PREFACE

This special issue of *Logical Methods in Computer Science* contains extended versions of selected papers presented at CALCO 2023, the 10th Conference on Algebra and Coalgebra in Computer Science, held at Indiana University, from June 19 to June 21, 2023, under the auspices of IFIP WG 1.3 “Foundations of System Specification”.

CALCO is a biennial conference formed by joining the forces and reputations of CMCS (International Workshop on Coalgebraic Methods in Computer Science) and WADT (Workshop on Algebraic Development Techniques). CALCO provides a forum to discuss results of theoretical nature on the mathematics of algebras and coalgebras, the way these results can support methods and techniques for software development, as well as experience reports concerning the transfer of the resulting technologies into industrial practice.

We warmly thank the local organizer, Larry Moss, and his team, for their tireless work in bringing the conference to fruition and for overcoming the challenges posed by its dual format. CALCO 2023 was co-located with the Mathematical Foundations of Programming Semantics (MFPS XXXIX) and held in cooperation with ACM SIGLOG. We are also grateful to the PC chairs of MFPS XXXIX, Paul Blain Levy and Marie Kerjean, for their seamless collaboration in coordinating two closely aligned meetings. Finally, we extend our thanks to everyone else involved in the meetings for their valuable contributions.

The proceedings of the conference, containing the papers selected by the Programme Committee, were published as Volume 270 in the Dagstuhl LIPIcs series. We are pleased that both publication venues for our conference are open access.

This special issue features five papers invited by the guest editors from among the top papers presented at the conference, all peer-reviewed according to the usual high standards of *Logical Methods in Computer Science*. The papers are:

- “*Many-Valued Coalgebraic Logic Over Semi-Primal Varieties*” by Alexander Kurz, Wolfgang Poiger, and Bruno Teheux;
- “*Rewriting for Symmetric Monoidal Categories with Commutative (Co)Monoid Structure*” by Aleksandar Milosavljević, Robin Piedeleu, and Fabio Zanasi;
- “*Fractals from Regular Behaviours*” by Todd Schmid, Victoria Noquez, and Lawrence S. Moss;
- “*Aczel-Mendler Bisimulations in a Regular Category*” by Jérémy Dubut;
- “*A Categorical Treatment of Open Linear Systems*” by Dario Stein and Richard Samuelson.

We would like to thank the authors of the papers for their excellent contributions, and the referees for their careful and thorough reviews.

Paolo Baldan and Valeria de Paiva
CALCO 2023 Special Issue Editors

All articles have already been published in the regular issues of Logical Methods in Computer Science.