

11th International Conference on Formal Structures for Computation and Deduction

FSCD 2026, July 20–23, 2026, Lisbon, Portugal

Edited by

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Dedicated to the memory of Gilles Dowek

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■ Preface

This volume contains the papers presented at FSCD 2026, the 11th International Conference on Formal Structures for Computation and Deduction, held July 20–23 as part of FLoC 2026, the Federated Logic Conference in Lisbon, Portugal. The following workshops were affiliated with FSCD 2026: 17th Workshop on Games for Logic and Programming Languages (GaLoP), IFIP Working Group 1.6, 12th Workshop on Intersection Types and Related Systems (ITRS), 21st International Symposium on Logical and Semantic Frameworks with Applications (LSFA), 11th Workshop on Mathematically Structured Functional Programming (MSFP), 10th International Workshop on Trends in Linear Logic and Applications (TLLA), 14th International Workshop on Computing with Terms and Graphs (TERMGRAPH), 12th International Workshop on Rewriting Techniques for Program Transformation and Evaluation (WPTE), 15th International Workshop on Confluence (IWC), 21st International Workshop on Logical Frameworks and Metalanguages: Theory and Practice (LFMTP), and the 40th International Workshop on Unification (UNIF).

FSCD covers all aspects of formal structures for computation and deduction, from theoretical foundations to applications. Building on two communities, RTA (Rewriting Techniques and Applications) and TLCA (Typed Lambda Calculi and Applications), FSCD embraces their core topics and broadens their scope to closely related areas in logic, models of computation, semantics and verification in new challenging areas.

This volume is dedicated to the memory of Gilles Dowek who passed away in July 2025. A workshop to celebrate his life and his many contributions to the study of logic and computer science was affiliated with FSCD 2026.

This year FSCD received 76 submissions with a total of 167 authors. The program committee consisting of 21 members was assisted by an additional 79 external reviewers. The review process included an author response period, after which a total of 32 papers were accepted to fill all available 30-minute slots for talks. In addition to the contributed papers, there were two invited talks, one by Andrej Bauer (University of Ljubljana), which was accompanied by a full-length paper co-authored with Danel Ahman, and one by Laura Kovács (TU Vienna).

The program committee gave the award for best paper by junior researchers to *Constructing (Co)inductive Types via Large Sizes* by Bastiaan Laarakker, Daniël Otten (both junior researchers), and Benno van den Berg.

The submission and reviewing processes were conducted via HotCRP, like all other conferences participating in FLoC 2026, and I am grateful to Nuno Lopes for facilitating its use. These proceedings are published as volume in the LIPIcs series and thanks are due to the editors for a timely and efficient process. I would particularly like to thank Sandra Alves (FSCD 2026 Conference Chair), Cynthia Cop (FSCD 2026 Workshops Chair), Rajeev Alur (FLoC 2026 General Chair), and Nuno Lopes (FLoC 2026 Organization Chair), and the many other members of the FSCD and FLoC organizing and steering committees that made this conference possible. Finally, the conference was organized in cooperation with ACM SIGLOG and ACM SIGPLAN.

Frank Pfenning
FSCD 2026 Program Chair
Pittsburgh, May 7, 2026



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