

7th International Workshop on Formal Methods for Blockchains

FMBC 2026, April 11, 2026, Turin, Italy

Edited by

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■ Preface

This volume contains the proceedings of the 7th International Workshop on Formal Methods for Blockchains (FMBC 2026), to be held in Turin, Italy on April 11, 2026. FMBC aims to bring together researchers and practitioners in the areas of formal methods and blockchain to promote a deeper understanding of how formal methods can be used for blockchain technology. Blockchain is a novel technology to store data in a decentralized way. Although the technology was originally invented to enable cryptocurrencies, it quickly found applications in several other domains. Since blockchains are often used to store financial transactions, bugs may result in huge economic losses and thus it is now of utmost importance to have strong guarantees of the behaviour of blockchain software. These guarantees can be brought by using formal methods. Indeed, blockchain software encompasses many topics of computer science where using formal methods techniques and tools is relevant: consensus algorithms to ensure the liveness and the security of the data on the chain, programming languages specifically designed to write smart contracts, cryptographic protocols, such as zero-knowledge proofs, used to ensure privacy, etc. FMBC 2026 is the 7th International Workshop on Formal Methods for Blockchains, a series of workshops started in 2019. In past years, FMBC took place in Porto (2019, colocated with FM), online (2020 and 2021, co-located with CAV), Haifa (2022, co-located with CAV), Luxembourg City (2024, co-located with ETAPS), and Hamilton (2025, co-located with ETAPS). This year FMBC attracted 10 submissions covering different areas of formal methods for blockchains. Each paper was reviewed by at least three reviewers and the Program Committee accepted 6 regular long papers and 1 short paper. FMBC 2026 would not have been possible without the deep investment and involvement of many supporters. We would like to express our gratitude to all the authors who submitted their work to the conference, the Steering Committee members who provided precious guidance and support, all the colleagues who served on the Program Committee, as well as the external reviewers, whose professional and efficient work during the review process helped us to produce a high-quality conference program. Particular thanks are given to the invited speakers, Pamina Georgiev from Certora and Alexander Hicks from the Ethereum Foundation, for their willingness to talk about their research and share their perspective about formal methods for blockchains. The abstracts of the invited talks and a short bio of the speakers are included in this volume as well. FMBC 2026 is co-located with ETAPS 2026, hosted and sponsored by the University of Turin, CNR-ISTI, and Synesthesia SB Srl. Many thanks to all the local organizers and in particular to Vincenzo Ciancia, Luca Paolini, and Maria Tacconi, Satellite Events Chairs of ETAPS 2026, for their help and guidance. FMBC 2026 was financially supported by the Ethereum Foundation.

March 2026

Massimo Bartoletti
Diego Marmosoler



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Editors: Massimo Bartoletti and Diego Marmosoler



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