

36th Euromicro Conference on Real-Time Systems

ECRTS 2024, July 9–12, 2024, Lille, France

Edited by

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■ Preface

Message from the Chairs

It is our pleasure to welcome you to the 36th Euromicro Conference on Real-Time Systems, held in Lille, France. Alongside RTSS and RTAS, ECRTS ranks as one of the top three international conferences on real-time systems. Over the past 36 years the conference has established itself as the premier forum in Europe for original theoretical and practical contributions to the state of the art in the design, implementation, verification, and validation of time-sensitive systems.

ECRTS has been at the forefront of recent innovations in the real-time systems community such as artifact evaluation and open-access proceedings. This year we have consolidated the double-blind submission process accounting for emerging trends such as arXiv preprints. We have also leveraged the Dagstuhl LIPICs flexible page limit to ease the shepherding process, while adopting a fixed and consistent page limit for manuscript submission.

Overall, this year we received 62 submissions from Europe, America and Asia. Each submission was reviewed by at least four Program Committee members. The PC meeting was held virtually on Zoom on April 16 and 17, 2024. After a thorough discussion, 10 excellent papers were selected for publication. An additional 7 papers were accepted after a detailed shepherding process, carried out in the months of April and May 2024, which further raised their overall quality. This equates to 17 published full-length papers, for an acceptance rate of 27%. A subset of the accepted papers were recognized as outstanding; these papers form the shortlist for the Best Paper award. We would like to extend our appreciation to all members of the Program Committee for their outstanding efforts in reviewing and shepherding papers to help produce an excellent program. Similarly, thanks to all secondary reviewers, who provided many valuable perspectives and important feedback.

The authors of 5 accepted papers have elected to submit their work to the Artifact Evaluation track. Papers approved by the AE track are marked in this proceedings with a seal that indicates that the artifact has passed the repeatability test. In addition, the artifact will be published in Dagstuhl Artifacts Series (DARTS). We would like to thank Matthias Becker and Catherine Nemitz for chairing the Artifact Evaluation committee, as well as all members of the committee for dedicating their time to testing the artifacts and interacting with the authors.

This year's ECRTS features a Real-Time Pitches session. In addition to Work-in-Progress papers, the Real-Time Pitches session includes demos, presentations of work already published in journals, as well as calls to actions and new ideas of potential interest to the community. Thanks are extended to Antonio Paolillo for chairing the Real-Time Pitches session, as well as to all reviewers.

Following a long-lasting tradition of industrial challenges coming from the WATERS workshop, ECRTS 2024 will also include an industrial challenge session. During the session, a new challenge will be presented, as well as submitted and accepted solutions to the current ARM challenge. Our thanks go to Andrea Bastoni and Paolo Burgio for organizing the session, as well as to participating industry partners.

A major conference like ECRTS 2024 is the result of the hard work of many people involved in the conference organization. In particular, we would like to thank Kuan H. Chen for his excellent work promoting the conference, as well as the ECRTS Executive Committee, Yasmina Abdeddaïm, Sebastian Altmeyer, Steve Goddard, and Marcus Völp, for their tremendous help and support throughout all aspects of the organization process.

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Finally, we would like to thank all authors who submitted their work to ECRTS 2024, whether it was accepted or not; without them this conference would not be possible. We are very pleased with the quality and breadth of this year's technical program, and the opportunity it will offer for engaging discussions during the conference. We hope you enjoy yourself at ECRTS 2024!

Julien Forget
ECRTS 2024 General Chair

Rodolfo Pellizzoni
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