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# Dependable Computing – EDCC 2022 Workshops


SERENE, DREAMS, AI4RAILS  
Zaragoza, Spain, September 12, 2022  
Proceedings


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# Preface

The European Dependable Computing Conference (EDCC) is an international annual forum for researchers and practitioners to present and discuss their latest research results on theory, techniques, systems, and tools for the design, validation, operation, and evaluation of dependable and secure computing systems.

Traditionally one-day workshops precede the main conference: the workshops complement the main conference by addressing dependability or security issues on specific application domains or by focusing in specialized topics, such as system resilience.

The 18th edition of EDCC was held in Zaragoza, Spain, during September 12–15, 2022. After two years of virtual events, due to the COVID-19 pandemic, EDCC 2022 returned as a physical event, allowing researchers and practitioners to meet and exchange ideas face to face.

The workshops day was held on Monday, September 12, 2022.

Four workshop proposals were submitted to this 18th edition and, after a thoughtful review process led by the workshop chair, all of them were accepted. The evaluation criteria for the workshops selection included the relevance to EDCC, the timeliness and expected interest in the proposed topics, the organizers' ability to lead a successful workshop, and their balance and synergy.

These joint proceedings include the accepted papers from three of these workshops:

- 14th International Workshop on Software Engineering for Resilient Systems (SERENE 2022);
- 3rd International Workshop on Dynamic Risk management for Autonomous Systems (DREAMS 2022);
- 3rd International Workshop on Artificial Intelligence for RAILwayS (AI4RAILS 2022).

All these three workshops together received a total of 22 submissions. Each workshop had an independent Program Committee, which was in charge of reviewing and selecting the papers submitted to the workshop. DREAMS 2022 and AI4RAILS 2022 adopted a single-blind review process while SERENE 2022 adopted a double-blind one. All the workshop papers received three reviews per paper (67 reviews in total). Out of the 22 submissions, 11 papers were selected to be presented at the workshops (acceptance rate of 50%) and all of these 11 papers were included in these proceedings.

Many people contributed to the success of the EDCC workshops day of this 18th edition. I would like to express my gratitude to all those supported this event. First, I thank all the workshops organizers for their dedication and commitment, the authors who contributed to this volume, the reviewers for their help in the paper assessment, and the workshops participants.

I would also like to thank all the members of the EDCC Steering and Organizing Committees, in particular Simona Bernardi and José Merseguer (the General Chairs),

who worked hard to bring back EDCC as a physical event. A special thank you to Simin Nadjm-Tehrani (the Program Chair) for her precious suggestions and Diego Pérez Palacín and Francesco Flammini (the Publicity Chairs) for disseminating the calls for papers.

Finally, many thanks to the staff of Springer who provided professional support through all the phases that led to this volume.

September 2022

Stefano Marrone

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