

Message from the SE'22 Workshop Chairs

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This volume includes the proceedings of the Workshops of the 2022 Software Engineering conference (SE'22). SE is the leading conference on software engineering in German-speaking countries and is annually organized by the Gesellschaft für Informatik (GI). The SE conference series serves as a platform to exchange experiences and insights in the area of software engineering for which it addresses an audience from both practice and academia. The workshops were held on the 21st and 25th of February 2022. The SE'22 was supposed to be held in Berlin, Germany. However, due to the ongoing COVID-19 pandemic, a physical meeting was not possible. Instead, the SE'22 was held as a fully virtual meeting via video conferencing with no less success.

1 Workshops

The workshops were selected by the workshop chairs, considering the feasibility of the proposed workshop and the potential to attract an engaged audience. All four submitted proposals were of high quality and therefore were accepted.

- 3rd Workshop on Anforderungsmanagement in Enterprise Systems Projekten (AESP'22). Many projects on enterprise systems selection, implementation, development fail due to missing, incorrect, deficient, or incomplete requirements. This often is due to false expectations, definitions, and disagreements on requirements management between customers and suppliers. In this workshop, these challenges are discussed. <https://www.sis-consulting.com/se22-anforderungsmanagement-in-enterprise-systems-projekten/>
- 19th Workshop on Automotive Software Engineering (ASE'22). The workshop focuses on problems related to software engineering for automotive systems, including adequate methods, techniques, and tools. As cars are more and more connected, have complex driving assistance features, and considering the problem of fully autonomous driving, automotive software is a timely and highly relevant research topic. <https://ase-workshop.github.io/2022/>

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- 4th Workshop on Avionics Systems and Software Engineering (AvioSE'22). Software development in the aerospace domain is driven by demanding fault tolerance, increasing complexity, new application potentials, rising certification effort, and increasing cost pressure. New software development methodologies are required for future applications such as e.g., autonomous air transport, aircrew workload reduction, commercial UAVs, and further enhancement of existing functionality. At the same time, there are challenges in communication and navigation in airspace, certification for multi-core processors, artificial intelligence as well as security of software, hardware, and connectivity. <https://aviose-workshop.github.io/>
- 2nd Workshop on Software Engineering in Cyber-Physical Production Systems (SECPPS'22). As software is playing an increasingly important role in the efficient operation of industrial production systems, the workshop on Software Engineering in Cyber-Physical Production Systems aims to discuss new approaches and methods for the design of software for use in the production systems domain, which follows the latest trends from the software engineering domain. <https://rickrabiser.github.io/secpps-ws/>

2 Acknowledgements and Thanks

We would like to thank all those who contributed to making the SE'22 workshops possible.

First of all, we would like to thank the workshop organizers for their workshop ideas and the engagement and energy they put into making the workshops a reality. Namely, we thank:

- Christoph Weiss and Johannes Keckeis for organizing the workshop on Anforderungsmanagement in Enterprise Systems Projekten (AESP'22)
- Heiko Dörr and Steffen Helke for organizing the Workshop on Automotive Software Engineering (ASE'22)
- Björn Annighöfer, Marina Reich and Andreas Schweiger for organizing the 3rd workshop on Avionics Systems and Software Engineering (AvioSE'22)
- Rick Rabiser, Birgit Vogel-Heuser, Manuel Wimmer, Andreas Wortmann, and Alois Zoitl for organizing the workshop Software Engineering in Cyber-Physical Production Systems (SECPPS'22)

Furthermore, we are grateful to the members of the workshop program committees, who reviewed the workshop submissions and ensured the quality of the presented research. Additional thanks go to the authors of all workshop submissions and the attendees of the workshops for making SE'22 an interesting venue.

A special thanks goes to the General Chair of the SE'22 Lars Grunske, the program committee co-chairs Janet Siegmund and Andreas Vogelsang, the industry track co-chair

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