Message from the VERDI Workshop Chairs
DSN-W 2024

This section contains the papers presented at the 2nd International Workshop on Verification & Validation of Dependable Cyber-Physical Systems (VERDI 2024), held in Brisbane, Australia, in June 24, 2024. The VERDI workshop aims at serving as a discussion forum focused on the area of Verification & Validation (V&V) as a means to guarantee dependability of complex, potentially automated/autonomous, Cyber-Physical Systems (CPS).

CPS are a class of systems where computation and communication interact with physical processes, providing complex, situation-aware, and often safety-, security-, or mission-critical ecosystems and services. A key property that CPS are expected to exhibit is that of dependability, that is, the ability to provide services that can be trusted within well determined time-periods, and equally important, that those service guarantees hold even when the system is subject to faults and attacks. A key ingredient to ensure dependability is thus to suc-cessfully apply V&V techniques and tools to attest the desired levels of safety, security, and privacy. VERDI covers all aspects related to the dependability eval-uation (with special focus on safety and security) of safety-critical CPS using techniques such as fault/attack-injection, runtime verification, formal verifica-tion, and semi-formal analysis.

The Program Committee of VERDI selected 5 submissions for publication. All submitted papers were reviewed by either three or four referees in a single blind manner. These proceedings include all the final versions of the papers that took into account the comments received by the reviewers.

We would like to thank all authors who submitted their work to the work-shop, to all colleagues who served on the Program Committee and helped us to prepare a high-quality workshop program. Particular thanks to the invited speaker, Juan Carlos Ruiz from the Universitat Polit`ecnica de Val`encia, Spain, for accepting to present his research and to share his perspectives on V&V for dependable CPS at VERDI. We are extremely grateful for the help in managing many practical arrangements from the local organizers as well as the workshop chairs of DSN 2024. We also thank the Portuguese Foundation for Science and Technology (FCT), the Swedish Agency for Innovation Systems (Vinnova) and the Chips Joint Undertaking (grant agreement No. 101095835), the Route 25 project (ref. TRB/2022/00061 - C645463824-00000063) funded by NextGenera-tionEU, within the Recovery and Resilience Plan, the CISTER Research Unit (UIDB/04234/2020), the RISE Research Institutes of Sweden, and IEEE for their sponsorship.

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