Message from the WoSoCer 2022 Chairs ISSREW 2022

On behalf of the Organizing Committee, it is our pleasure to welcome you to the 11th IEEE International Workshop on Software Certification (WoSoCer 2022) co-located with the 33rd IEEE International Symposium on Software Reliability Engineering (ISSRE 2022). This, year, WoSoCer adopted a hybrid conference model due to the current worldwide situation regarding COVID-19.

The WoSoCer 2022 is a forum to discuss novel solutions for the assessment and certification of software in critical systems and to promote their adoption through industrial and academic research projects. The workshop welcomes contributions related to any area of critical software systems, and their certification according to safety and security standards and regulations.

This year we selected 7 papers for presentation, which discuss highly relevant themes in critical software systems and certification, with an emphasis on the latest techniques and approaches for the avionic domain, as well as methodology for the validation and verification of machine learning algorithms, safety and security assessment, and performance analysis.

The workshop is organized into 4 sessions. The first session features an invited talk from Prof. Philip Koopman, Associate Professor, Carnegie Mellon University, Department of Electrical and Computer Engineering (ECE), Pittsburgh, Pennsylvania, USA, titled: "How Safe Is Safe Enough for Autonomous Vehicles?", a talk that will discuss factors involved in measuring and predicting autonomous vehicle (AV) safety. Then, the second session includes presentations of studies about techniques and approaches for certification in the avionic domain. The third session is dedicated to the discussion of studies about the assessment of both safety and security, verification in the context of security and machine learning, and performance analysis. The last session concludes the workshop with some remarks and discussions.

Finally, we would like to thank the ISSRE 2022 organizing committee for the support in the organization and hosting the workshop, and the WoSoCer 2022 program committee members for their valuable effort in reviewing the papers and providing advice and constructive feedback during the workshop.

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