Introduction to the Proceedings of WoRIE'22

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This contents block of the proceedings is devoted to gather the accepted contributions to be presented at the 11th International Workshop on the Reliability of Intelligent Environments (WoRIE 2022), which will be held within the 18th International Conference on Intelligent Environments (IE 2022) in Biarritz, France, from 20th June to 23rd June 2022. This workshop is motivated by the need to develop high quality Engineering for Intelligent Environments (IEs) and to bridge the gap between theory and practice in this area. It aims to serve as a forum whereby researchers and practitioners can actively discuss about how to make IEs more reliable, safer, and securer, as well as increasing user confidence in them. In addition, we think it is necessary a greater effort and collaboration between researchers and practitioners working in this area, in order to provide a more holistic and unified methodology to develop higher quality IEs that are increasingly accepted by their users.

In this edition, our keynote speaker is Prof. Ernesto Exposito, whom we greatly appreciate for accepting our invitation. His talk will focus on data and services' challenges for digital transformation in the Industry 4.0.

The selected contributions cover wide ranging topic areas representing a good mix of latest theoretical and practical efforts: case studies on design and implementation of a cloud-based control system to execute the optimization with an additional local optimization, empirical study on the impact of unit tests and code coverage on the energy consumption of software, experiment to reach the Contiki-NG's TSCH Minimal Schedule breaking point, and development of an intelligent edge IoT device based on the implementation of software embedded agents. We hope readers will feel inspired to contribute to future editions.

Finally, we would like to express our sincere thanks to: all the authors of the submitted papers, for their high-quality contributions; WoRIE'22 Program Committee members, for their excellent work and invaluable support during the review process; and IE'22 Workshops Chairs, for their help and support. It would not have been possible to successfully organize the present edition of this workshop without the collaboration of all of them.

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