

# ADAPTIVE 2025

## Forward

The Seventeenth International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE 2025), held on April 6 – 10, 2025, continued a series of events targeting advanced system and application design paradigms driven by adaptiveness and self-adaptiveness. With the current tendencies in developing and deploying complex systems, and under the continuous changes of system and application requirements, adaptation is a key feature. Speed and scalability of changes require self-adaptation for special cases. How to build systems to be easily adaptive and self-adaptive, what constraints and what mechanisms must be used, and how to evaluate a stable state in such systems are challenging duties. Context-aware and user-aware are major situations where environment and user feedback is considered for further adaptation.

The conference had the following tracks:

- Self-adaptation
- Adaptive applications
- Adaptivity in robot systems
- Fundamentals and design of adaptive systems
- Computational Trust for Self-Adaptive Systems
- Assurances and metrics for adaptive and self-adaptive systems

Similar to the previous edition, this event attracted excellent contributions and active participation from all over the world. We were very pleased to receive top quality contributions.

We take here the opportunity to warmly thank all the members of the ADAPTIVE 2025 technical program committee, as well as the numerous reviewers. The creation of a high quality conference program would not have been possible without their involvement. We also kindly thank all the authors that dedicated much of their time and effort to contribute to ADAPTIVE 2025. We truly believe that, thanks to all these efforts, the final conference program consisted of top quality contributions.

Also, this event could not have been a reality without the support of many individuals, organizations and sponsors. We also gratefully thank the members of the ADAPTIVE 2025 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope ADAPTIVE 2025 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in the area of adaptive and self-adaptive systems and applications. We also hope that Valencia provided a pleasant environment during the conference and everyone saved some time to enjoy this beautiful city

### **ADAPTIVE 2025 General Chair**

Jaime Lloret Mauri, Universitat Politecnica de Valencia, Spain

### **ADAPTIVE 2025 Steering Committee**

Constantin Paleologu, National University of Science and Technology POLITEHNICA Bucharest, Romania

Claudia Raibulet, University of Milano-Bicocca, Italy

Sebastian Herold, Karlstad University, Department for Mathematics & Computer Science, Sweden

Andreas Rausch, TU Clausthal, Clausthal-Zellerfeld, Germany

Marc Kurz, University of Applied Sciences Upper Austria, Faculty for Informatics, Communications and Media, Austria

Valerie Camps, Paul Sabatier University - IRIT, Toulouse, France

Yukio Hayashi, Japan Advanced Institute of Science and Technology, Japan

### **ADAPTIVE 2025 Publicity Chair**

Francisco Javier Díaz Blasco, Universitat Politècnica de València, Spain

Ali Ahmad, Universitat Politècnica de València, Spain

José Miguel Jiménez, Universitat Politècnica de València, Spain

Sandra Viciano Tudela, Universitat Politècnica de València, Spain