

## Message from the Program Chairs

This volume contains the papers presented at the 9<sup>th</sup> IEEE International Symposium on Industrial Embedded Systems (SIES 2014), held in Pisa, Italy, 18-20 June 2014.

The subjects treated in this conference cover different fields related to embedded systems, including software design methodologies, real-time computing systems, embedded control applications, automotive systems, hardware/software co-design, computer architectures, communication networks, performance analysis, and many more. During the last few years, embedded systems expanded towards new application domains, including multimedia computing, wireless sensor networks, and healthcare. Such new domains gave rise to new challenges and stimulated research in novel directions, such as quality of service management, energy-aware computing, stochastic scheduling, and feedback-based techniques for adaptive operating systems. The papers contained in this volume reflect such a trend and describe the work of leading research groups from all over the world.

This year's conference attracted 49 submissions from 18 different countries, including the United States, South American, and Asian countries, showing an increased interest in this conference from the international community. Among the submissions, 26 papers have been selected for publication and appear in this volume.

In addition to the main technical sessions, this year we have organized the following events: two invited sessions: one on automotive systems and one on coordination of autonomous agents; a Work in Progress (WiP) session, chaired by Mauro Marinoni, providing an interesting forum to allow the audience to learn about emerging research activities and closely interact with the authors.

The program also includes four invited talks: Alberto Broggi, from Università di Parma, Italy, illustrates the research trends in autonomous driving technology; Karl-Erik Årzén, from Lund University, Sweden, presents the new research challenges in managing computational resources in cloud computing; Lui Sha, from University of Illinois at Urbana Champaign, USA; discusses the issues in the process of migrating real-time software from single-core to multicore chips; and Kees Goossens, from Eindhoven University of Technology, The Netherlands, discusses how to implement virtual execution platforms for mixed-criticality applications.

We would like to thank all the Reviewers who gave up their valuable time to read the submissions and ensuring the high quality of the program. Special thanks go to Marco Di Natale, for his valuable guidance and local arrangements, and to Mauro Marinoni, for his support in managing the WIP session.

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