
The penetration of embedded computing is happening in almost every area, from low price consumer electronics to high-end aerospace and avionics environments. In today’s world, automobiles, airplanes, home appliances, medical devices, cell phones, network processors, handhelds, digital audio/video, imaging, game consoles, graphics, and other system-on-a-chip (SoCs) utilize embedded computers. Embedded computers, even sophisticated ones, have been used in academic and commercial products and systems for over twenty years. However, only recently has embedded computing moved from craft to an emerging and very promising discipline.

The Symposium on Embedded Computing, building on the experience of the three past editions (EC06, EC05, and EC04) is to bring together computer scientists, industrial engineers and researchers to discuss and exchange experimental or theoretical results, novel designs, work-in-progress, experience, case studies, and trend-setting ideas in the area of embedded computing. This year, the symposium received a large number of submissions representing many different countries. All submissions were carefully reviewed by at least three committee members. To allocate as many papers as possible and also keep the high quality of the workshop, we finally decided to accept 15 papers for oral technical presentation. We believe all of these papers and topics will not only provide novel ideas, new results, work in progress, and state-of-the-art techniques in this field, but also stimulate future research activities in the area of embedded computing. Authors of high quality papers will be invited to submit the extended version of their papers for the Special Issue of the Journal of Embedded Computing (JEC).

The program for this workshop is the result of hard and excellent work of many people, including authors, external reviewers, and program committee members. We would like to express our sincere appreciation to all of them for their cooperation in completing the workshop program under a very tight schedule. We also gratefully acknowledge the IEEE Computer Society for sponsoring the symposium. Last but not least, we are grateful to the organizers of the IEEE 21st International Conference on Advanced Information Networking and Applications (AINA 2007) for hosting the symposium, and, in particular AINA 2007 Workshop Co-Chairs, Leonard Barolli, Arjan Durresi, and Ruppa K. Thulasiram, for helping and encouraging the inclusion of SEC-07 in AINA-07.

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