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Embedded Computer Systems: Architectures, Modeling, and Simulation

8th International Workshop, SAMOS 2008
Samos, Greece, July 21-24, 2008
Proceedings

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Dedicated to Stamatis Vassiliadis (1951 – 2007)

Integrity was his compass
Science his instrument
Advancement of humanity his final goal



Stamatis Vassiliadis

Professor at Delft University of Technology
IEEE Fellow - ACM Fellow
Member of the Dutch Academy of Sciences - KNAW

passed away on April 7, 2007.

He was an outstanding computer scientist and due to his vivid and hearty manner he was a good friend to all of us.

Born in Manolates on Samos (Greece) he established in 2001 the successful series of SAMOS conferences and workshops.

These series will not be the same without him.

We will keep him and his family in our hearts.

Preface

The SAMOS workshop is an international gathering of highly qualified researchers from academia and industry, sharing their ideas in a 3-day lively discussion. The workshop meeting is one of two co-located events—the other event being the IC-SAMOS. The workshop is unique in the sense that not only solved research problems are presented and discussed, but also (partly) unsolved problems and in-depth topical reviews can be unleashed in the scientific arena. Consequently, the workshop provides the participants with an environment where collaboration rather than competition is fostered.

The workshop was established in 2001 by Professor Stamatis Vassiliadis with the goals outlined above in mind, and located in one of the most beautiful islands of the Aegean. The rich historical and cultural environment of the island, coupled with the intimate atmosphere and the slow pace of a small village by the sea in the middle of the Greek summer, provide a very conducive environment where ideas can be exchanged and shared freely. The workshop, since its inception, has emphasized high-quality contributions, and it has grown to accommodate two parallel tracks and a number of invited sessions.

This year, the workshop celebrated its eighth anniversary, and it attracted 24 contributions carefully selected out of 62 submitted works for an acceptance rate of 38.7%. Each submission was thoroughly reviewed by at least three reviewers and considered by the international Program Committee during its meeting at Delft in March 2008.

Indicative of the wide appeal of the workshop is the fact that the submitted works originated from a wide international community that included Belgium, Brazil, Czech Republic, Finland, France, Germany, Greece, Ireland, Italy, Lithuania, The Netherlands, New Zealand, Republic of Korea, Spain, Switzerland, Tunisia, UK, and the USA. Additionally, two invited sessions on topics of current interest addressing issues on “System Level Design for Heterogeneous Systems” and “Programming Multicores” were organized and included in the workshop program. Each special session used its own review procedure, and was given the opportunity to include relevant work from the regular workshop program. Three such papers were included in the invited sessions.

This volume is dedicated to the memory of Stamatis Vassiliadis, the founder of the workshop, a sharp and visionary thinker, and a very dear friend, who unfortunately is no longer with us.

We hope that the attendees enjoyed the SAMOS VIII workshop in all its aspects, including many informal discussions and gatherings.

July 2008

Nikitas Dimopoulos
Stephan Wong
Mladen Berekovic

Organization

The SAMOS VIII workshop took place during July 21 – 24, 2008 at the Research and Teaching Institute of East Aegean (INEAG) in Agios Konstantinos on the island of Samos, Greece.

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