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Architecture of Computing Systems - ARCS 2011

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Proceedings

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Preface

The ARCS series of conferences has over 30 years of tradition reporting top results in computer architecture and operating systems research. It is organized by the special interest group on Computer and System Architecture of the GI (Gesellschaft für Informatik e.V.) and ITG (Informationstechnische Gesellschaft im VDE Information Technology Society). In 2011, ARCS was hosted by Politecnico di Milano, the largest technical university in Italy, on the campus located in Como. Lake Como (Lago di Como in Italian also known as Lario from the Latin *Larius Lacus*) is a Y-shaped glacial lake surrounded by the Alps. Around Lake Como, there are many interesting sites to visit: historical monuments, beautiful villas and breathtaking sights. Besides these tourist attractions, today Como is a dynamic business city with a relevant past in textile (silk) industry.

This year, the conference topics comprised design aspects of multi/multi-core architectures, network-on-chip architectures, processor and memory architectures optimization, adaptive system architectures such as reconfigurable systems in hardware and software, customization and application-specific accelerators in heterogeneous architectures, organic and autonomic computing, energy-awareness, system aspects of ubiquitous and pervasive computing, and embedded systems.

The call for papers attracted about 62 submissions from all around the world. Each submission was assigned to at least three members of the Program Committee for review. The Program Committee decided to accept 22 papers, which were arranged in seven technical sessions. The Program Committee meeting was held on November 19 at VDE Haus in Frankfurt am Main, Germany. The accepted papers are from Cyprus, Czech Republic, France, Germany, Iran, Italy, Japan, The Netherlands, Norway, Spain, USA and UK. Two keynotes on computing systems complemented the strong technical program.

We would like to thank all those who contributed to the success of this conference, in particular the members of the Program Committee (and the additional reviewers) for carefully reviewing the contributions and selecting a high-quality program. The workshops and tutorials were organized and coordinated by Wolfgang Karl and Dimitrios Soudris. Our special thanks go to the members of the Organizing Committee for their numerous contributions: Giovanni Agosta, Finance Chair, for setting up the conference software, Yvonne Bernard as Web Chair designed and maintained the website, Carlo Galuzzi as Proceedings Chair took over the tremendous task of preparing this volume, Christian Hochberger as

Industry Liason and Gianluca Palermo as Publicity Chair. We especially would like to thank Simone Corbetta and Patrick Bellasi for taking care of the local arrangements and the many other aspects of preparing the conference.

We trust that you will find this year's ARCS proceedings enriching and hope you enjoyed the warmness of the Italian people and the unique taste of the Italian cuisine.

February 2011

Mladen Berekovic
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The conference was held during February 24–25, 2011 on the Como Campus of the Politecnico di Milano, Como, Italy.

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