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Software and Data Technologies

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Volume Editors

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Preface

This book contains the best papers of the Second International Conference on Software and Data Technologies (ICSOFT 2007), held in Barcelona, Spain. It was organized by the Institute for Systems and Technologies of Information, Communication and Control (INSTICC), co-sponsored by the Workflow Management Coalition (WfMC), in cooperation with the Interdisciplinary Institute for Collaboration and Research on Enterprise Systems and Technology (IICREST).

The purpose of ICSOFT 2007 was to bring together researchers and practitioners interested in information technology and software development. The conference tracks were “Software Engineering,” “Information Systems and Data Management,” “Programming Languages,” “Distributed and Parallel Systems” and “Knowledge Engineering.”

Being crucial for the development of information systems, software and data technologies encompass a large number of research topics and applications: from implementation-related issues to more abstract theoretical aspects of software engineering; from databases and data warehouses to management information systems and knowledge-base systems; next to that, distributed systems, pervasive computing, data quality and other related topics are included in the scope of this conference.

ICSOFT 2007 received 292 paper submissions from more than 56 countries in all continents. To evaluate each submission, a double-blind evaluation method was used: each paper was reviewed by at least two internationally known experts from the ICSOFT Program Committee. Only 41 papers were selected to be published and presented as full papers, i.e., completed work (8 pages in proceedings / 30-min oral presentations), 74 additional papers describing work-in-progress were accepted as short papers for 20-min oral presentation, leading to a total of 115 oral paper presentations. Another 76 papers were selected for poster presentation. The full-paper acceptance ratio was thus 14%, and the total oral paper acceptance ratio was 39%.

ICSOFT was organized in conjunction with ENASE—the Evaluation of Novel Approaches to Software Engineering working conference. ENASE provides a yearly forum for researchers and practitioners to review and evaluate new software development methodologies, practices, architectures, technologies and tools. The background body of knowledge for ENASE is formed by novel approaches to software engineering with emphasis on software product and process improvement.

This book includes a special section with the three best papers from ENASE.

We hope that you will find these papers interesting and we hope they represent a helpful reference in the future for all those who need to address any of the research areas mentioned above.

August 2008

Joaquim Filipe
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