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Revised Selected Papers
Preface

The present book includes extended and revised versions of a set of selected papers from the 4th International Conference on Software and Data Technologies (ICSOFT 2009), held in Sofia, Bulgaria, which was organized by the Institute for Systems and Technologies of Information, Communication and Control (INSTICC), co-organized by the Interdisciplinary Institute for Collaboration and Research on Enterprise Systems and Technology (IICREST), in cooperation with the Bulgarian Academy of Sciences and the Technical University of Sofia and technically co-sponsored by the Workflow Management Coalition (WfMC).

The purpose of ICSOFT 2009 was to bring together researchers and practitioners interested in information technology and software development. The conference tracks were “Enterprise Software Technology,” “Software Engineering,” “Distributed Systems,” “Data Management” and “Knowledge-Based Systems.”

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-based systems; next to that, distributed systems, pervasive computing, data quality and other related topics were included in the scope of this conference.

ICSOFT 2009 received 212 paper submissions from 50 countries in all continents. To evaluate each submission, a double-blind paper evaluation method was used: each paper was reviewed by at least two internationally known experts from the ICSOFT Program Committee. Only 27 papers were selected to be published and presented as full papers, i.e., completed work (8 pages in the proceedings / 30 min oral presentations), 53 additional papers describing work-in-progress were accepted as short papers for 20 min oral presentation, leading to a total of 80 oral paper presentations. Another 33 papers were selected for poster presentation. The full-paper acceptance ratio was thus 13%, and the total oral paper acceptance ratio was 38%.

We hope that you will find these papers interesting, considering them a helpful reference in the future when addressing any of the research areas mentioned above.

July 2010

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