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Towards Ubiquitous Networking and Services

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Revised Selected Papers

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Preface

This volume contains the set of revised selected papers presented at the 21st International Conference on Information Networking (ICOIN 2007), which was held in Estoril, Portugal, January 23–25, 2007. The conference series started under the name of Joint Workshop on Computer Communications, in 1986. At that time, it constituted a technical meeting for researchers and engineers on Internet technologies in East Asian countries, where several technical networking issues were discussed. In 1993, the meeting was reorganized as an international conference known as ICOIN. Recent conferences were held in Sendai, Japan (2006), Jeju, Korea (2005), Pusan, Korea (2004), Jeju, Korea (2003), Jeju, Korea (2002), Beppu City, Japan (2001), Hsin-chu, Taiwan (2000), and Tokyo, Japan (1999). In 2007, for the first time since its creation, ICOIN took place outside Asia, and we were very pleased to host it in Portugal. ICOIN 2007 was organized by INESC-ID and IST/Technical University of Lisbon (Portugal) with the technical co-sponsorship of IEEE Communications Society and IEEE Portugal Section-Computer Society Chapter, in cooperation with the Order of Engineers College of Informatics Engineering (Portugal), IPSJ (Information Processing Society of Japan), KISS (Korea Information Science Society), and Lecture Notes in Computer Science (LNCS), Springer, Germany.

The papers presented in this volume were selected in two stages: 1) reviewing and selection for the ICOIN program and 2) on-site presentation review by session chairs or by program committee chairs. Regarding the first step, in response to the Call for Papers, a total of 302 papers were submitted, of which 100 were accepted, after careful assessment, for oral presentation in 24 technical sessions. Each paper was reviewed by at least three members of the Technical Program Committee or by external peer reviewers. A second review round was performed based on the presentation review by session chairs or by program committee chairs and, after a careful assessment by program chairs, 82 revised papers were selected for this volume. The set of revised selected papers covers a wide range of networking-related topics, including sensor networks; ad-hoc, mobile, and wireless networks; optical networks; peer-to-peer networks and systems; routing; transport protocols; quality of service; network design and capacity planning; resource management; performance monitoring; network management; next generation Internet; and networked applications and services.

We believe that this set of revised selected papers will make a significant contribution to the solution of key problems in the field of information networking. We would like to take this opportunity to warmly thank all of the authors who submitted their valuable papers to the conference. We are grateful to the members of the Technical Program Committee and to the numerous reviewers. Without their support, the organization of a high-quality conference program and the selection of this set of revised papers would not have been

possible. We are also indebted to the many individuals and organizations that made this event happen, namely to our staff, who handled the logistics and worked to make this meeting a success, and to the sponsors.

We hope that you will find this volume, containing the revised selected papers of the International Conference on Information Networking (ICOIN 2007), a useful and timely document for presenting new ideas, results and recent findings in information networking towards ubiquitous networking and services.

February 2008

Teresa Vazão
Mário Freire
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