

Preface

Nowadays, the Internet is the most commonly used medium for the exchange of data in different forms. Presently, over 60 million machines have access to the Internet and to its resources. However, the Internet is also the largest distributed system offering different computational services and possibilities not only for cluster computing. If the needs of modern mobile computing and multimedia systems are taken into account, it becomes clear that modern methods must ensure an effective development and management of the Internet allowing each user fast access to this huge resource space.

The Innovative Internet Computing Systems workshop is organized by the Gesellschaft für Informatik (GI) in Germany. It intends to be an open meeting point for scientists dealing with different aspects of this complex topic. In contrast to the Distributed Communities on the Web workshops, which can be considered as the roots of *I²CS*, special attention is given to fundamental research works and the application of theoretical and formal results in practical implementations.

The 16 papers (2 invited, 9 long, and 5 short) presented at the conference and in the present volume were selected out of 30 contributions. Every submission was fully reviewed by three members of the program committee. The two invited speakers Paul Tarau (University of North Texas, Denton, U.S.A.) and Knut Löscke (PC-Ware Information Technologies AG Leipzig, Germany) presented overview talks on Multicast Protocols for Jinni Agents and eLicensing respectively, from the scientific as well as the industrial point of view.

Furthermore, Jochen Harant from the Ilmenau Technical University gave a tutorial on some aspects of the probabilistic method in Discrete Mathematics, which we think is becoming relevant for computation in large distributed systems.

We would like to thank all those who contributed to this book for their excellent work and their great cooperation. Mrs. Barbara Hamann deserves special gratitude for her great efforts and perfect work concerning the preparation of this volume and the administrative details associated with the workshop. We wish to acknowledge the substantial help provided by our sponsors: Ilmenau Technical University, the University of Rostock, DKV Deutsche Krankenversicherung AG, and 4FriendsOnly.com Internet Technologies AG.

We hope that all participants enjoyed a successful workshop, made a lot of new contacts, held fruitful discussions helping to solve the actual research problems, and had a pleasant stay in Ilmenau. Last but not least we hope to see you again at *I²CS 2002*, which will be held in the Rostock area in the north of Germany.

May 2001

Thomas Böhme
Herwig Unger

Organization

I²CS was organized by the Gesellschaft für Informatik (GI) in Germany.

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