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Preface

This volume collects a subset of the high-quality papers that were accepted for presentation at the 20th International Symposium on Computer and Information Sciences (ISCIS). ISCIS 2005 was organized by the Department of Computer Engineering of Boğaziçi University and was held in Istanbul, Turkey during 26–28 October, 2005.

Following on the success of previous ISCIS symposia, ISCIS 2005 attracted a total of 491 papers. The submitted papers went through a rigorous submission period with the help of the Program Committee and external reviewers. Keeping up with the tradition of previous editions of ISCIS, the selected papers cover a wide spectrum of topics in computer and information sciences. The main topics of ISCIS 2005 can be listed as: computer networks, sensor and satellite networks, security and cryptography, performance evaluation, database systems, algorithms, multiagent systems, e-commerce, machine learning, natural language processing and information retrieval, image and speech processing, and theory of computing.

In addition to the paper presentations, the symposium enjoyed four invited talks. The honorary chair of ISCIS 2005, Erol Gelenbe from Imperial College, London, gave a talk on a probability model of natural or artificial infection. The second talk was by Onn Shehory of IBM Haifa Research Labs, on online auctions. Jacques Stern from Ecole Normale Supérieure, France, focused his talk on alternatives to RSA. The last invited speaker, Yanghee Choi from Seoul National University, Korea, delivered a talk on location and address issues in ubiquitous computing.

Many individuals and organizations contributed to the making of the 20th edition of ISCIS. Authors from 30 countries submitted their papers. The Program Committee members reviewed the submissions diligently in a short time span. A substantial number of external referees helped with the reviewing. The staff at the Computer Engineering Department of Boğaziçi University not only offered their help in setting up and in maintaining crucial facilities, but also advised us in setting up high standards for ISCIS 2005. The Scientific and Technical Research Council of Turkey (TÜBİTAK), the Turkey Section of the Institute of Electrical and Electronics Engineers (IEEE), and the Boğaziçi University Research Fund supported our activities financially. We are deeply indebted to them all.

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