

Preface

The Seventh International Symposium on Numeric and Symbolic Algorithms for Scientific Computing was held at the West University of Timisoara from September 25th to 29th, 2005. This is an annual symposium organised by the West University of Timișoara in cooperation with the Research Institute for Symbolic Computation from the Johannes Kepler University of Linz, Austria and with the Research Institute e-Austria in Timișoara, Romania.

The aim of the symposium is to stimulate the dialogue between the symbolic and numeric computing communities, because we believe that such a dialogue is very important for achieving significant progress in making the computer a truly intelligent aid for mathematicians and engineers. Besides its main track, the symposium included five workshops on specific themes: ACSys – Agents for Complex Systems, CAVIS – Computer-aided Verification of Information Systems, NCA – Natural Computing and Applications, PN&WM – Petri Nets and their Applications to Workflow Management, TAPS – Theory and Applications of P Systems.

An additional aim of the symposium is to foster cooperation between the international research community and the Timisoara region, which is one of the most dynamic in Romania, especially in what concerns research and technological development in the domain of information technologies.

We received 93 submissions covering a large variety of topics: numeric and symbolic computation, scientific computing systems, parallel and distributed computation, software design, data mining, cryptography and compression algorithms, and other. All submissions have been refereed by at least two members of the program committee. Finally, 64 of them have been accepted for publication in this volume. Following the referees suggestions some of them have been accepted as full papers and others as short ones.

We would like to thank all members of the Program Committee and the workshops chairs for their effort in promoting the symposium and for their hard work in reviewing the manuscripts in a timely and professional manner. This is appropriately reflected in the high quality of the papers in the proceedings.

Furthermore special thanks are due to the invited speakers: Ajith Abraham, Gheorghe Păun, Gabriel Ciobanu and Tetsuo Ida, high-profile international researchers whose talks have been appreciated by all the participants.

September, 2005

SYNASC'05 chairs