Preface

The 9th International Symposium on Numeric and Symbolic Algorithms for Scientific Computing was held at the West University of Timișoara from September 26th to 29th, 2007. 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 from 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 seven workshops on specific themes: ACSys – Agents for Complex Systems, GridCAD – Grid Computing Application Development, IMNE – Iterative Methods for Nonlinear Equations, NCA – Natural Computing and Applications, RTES - Real Time and Embedded Systems, RuleApps – Rule Based Applications, WfPM – Workflows and Process Management.

We received over 120 submissions covering a large variety of topics: numeric and symbolic computation, automated reasoning, formal methods in software design, security, data mining, image and text processing, agent systems, parallel and distributed computing, rule based applications, real time and embedded systems, natural computing and workflow management. All submissions have been refereed by at least two members of the program committee. Finally, 75 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.

Furthermore special thanks are due to the invited speakers: Bruno Buchberger, Charles Chidume, Vladimir Gorodetsky, Kevin Hammond, Tetsuo Ida, Fairouz Kammaredine, Mark Proctor, Ioan A. Rus, high-profile international researchers whose talks have been appreciated by all participants.

September, 2007

SYNASC’07 Chairs