Preface

Software is becoming increasingly complex and there is a growing awareness within software engineering practice that formal verification techniques are helpful in dealing with this growing complexity. As formal verification becomes increasingly used in the industry as a part of the design process, there is a constant need for efficient tool support to deal with real-size applications. In particular, formal verification is finding its way into areas such as embedded systems as used in consumer electronics, time dependent systems occurring in safety critical systems and communication protocols from the telecommunication industry.

Currently the Institute e-Austria Timişoara is engaged in a scientific project on practical computer aided verification of information systems, which has industrial applications in the computer aided verification of software, hardware, and mixed systems.

The Institute e-Austria Timişoara (IeAT) is a research institute in the field of Information Technologies which was created in Fall 2002 by the Research Institute for Symbolic Computation (RISC-Linz) from the University of Linz, in cooperation with the Department Computer Science from the West University, Timisoara, and the Department of Computers from the University "Politehnica" in Timisoara. The institute will be the kernel of an IT Techonology Park which will be created in Spring 2003, as the next step in this pilot project funded mainly by Austrian Ministery of Economy, Austrian Ministery of Science, and the Romanian Ministery of Education and Research. The long-term goal of the project is to create an environment for high-quality research and technology-transfer in the field of Information Technologies and to stimulate the scientific, technological, and economic cooperation between Romania and Austria.

The purpose of this workshop is to present the main verification techniques and the work of project researchers to specialists from industry, and to initiate a discussion about the possible industrial applications of our research.

The purpose of the first part of the workshop is to present the institute and the basics of IeAT research project to industry, and to get some feed-back in the panel discussion. To the first session are invited also personalities which may have no interest in the scientific project, but in the e-Austria project. The purpose of the second part is to present the technical approach, both to all the researchers, but also to the industry.

Timişoara, 12.02.2003 CaVIS Organizers