Welcome to the 15th Annual IEEE Symposium on Computer-Based Medical Systems organized by the University of Maribor, Faculty of Electrical Engineering and Computer Science, in cooperation with IEEE Computer Society and Adolf Drole Health Center. We are delighted to host the symposium for the second time here in Maribor, Slovenia.

We had an outstanding response to our call for papers. We selected 52 papers and 11 posters from 34 countries and 4 continents. All these contributions are published in these proceedings. In addition, 8 student paper contest finalist have been selected and their extended papers will be published in the journal, *Informatica Medica Slovenica*.

The contributions are organized in the following tracks:
- IMS1 Intelligent Medical Systems I
- IMS2 Intelligent Medical Systems II: Methods
- IMS3 Intelligent Medical Systems III: Data Mining
- IMS4 Intelligent Medical Systems IV: Knowledge Representation
- SP Signal Processing
- IP Image Processing
- MS Medical Systems
- MIS1 Medical Information Systems I: Data Management
- MIS2 Medical Information Systems II: Software Systems and Agents
- MIS3 Medical Information Systems III: Web-Based Systems and Frameworks
- MID Management of Image Databases
- MV Multimedia and Visualization
- POS Poster Session
- SPC1 Student Paper Contest I
- SPC2 Student Paper Contest II

The plenary address will be given by Prof. Dr. Ivan Bratko, one of the pioneers of Slovenian computer science and world-renown expert in artificial intelligence.

We thank the IEEE staff for their support and professional guidance, reviewers for their many helpful comments to authors, and of course the authors for their excellent contributions.

We hope you enjoy the symposium and thank you for your participation.

_Editors_

Peter Kokol
Bruno Stiglic
Milan Zorman
Damjan Zazula