

MIT 2006

Medical Informatics & Technology



Preface

Medical Informatics and Technology does not recognize borderlines between disciplines. It rather follows the tradition of interdisciplinary cooperation which requires attention to be given to the needs of other people. In medical informatics & technology three very different and specific partners are to work together. Patients needs are recognized by physicians who collaborate with scientists and engineers. It defines the goal of our research which is to satisfy the functional requirements of authorized physicians for the benefit of the patients.

MIT 2006 provides the platform for representatives of different disciplines to meet and exchange views. Members of the academic society of technical and medical background get together in order to bridge the gap between the disciplines of biomedical engineering and clinical medicine. Researches who explore the area of medical imaging, biomedical signals, and biotechnology discuss various innovations that change the way of solving problems. New approaches to data processing and recognition increase the efficiency of medical diagnostic and treatment procedures and permits more information to be extracted from the acquired data. The information is then put at the disposal of authorized physicians at the place and at the time it is required, in a format adapted to the specific needs of the physician and the patient.

An extended area is covered by lectures and presentations. It includes biomedical signals, medical image processing, recognition, and understating, face recognition, handwritten text processing and natural language analysis, telemedicine, computer-aided diagnosis and treatment, biomaterials. Papers present various theoretical approaches and new methodologies based on fuzzy sets, mathematical statistics, morphological methods, fractals, wavelets, syntactic methods, artificial neural networks, graphs and many others.

I would like to express my gratitude to the Conference Committees, paper reviewers, invited speakers, session chairpersons, special events organizers, and authors who have contributed their original research papers.

It is my honor and pleasure to welcome all MIT'2006 participants to the Congress and wish all of you interesting discussions, friendly meetings, and enjoyable stay in Wisła.

Ewa Piętka

*Chairperson of the Program Committee
and Volume Editor*