



International Symposium on Assistive and Recuperative Technologies for Injured, ill, Pregnant, Elderly and people with Disabilities (ARTIPED)



July 24-26, 2009, Iasi, Romania

Hosted by the Faculty of Medical Bioengineering, University of Medicine and Pharmacy, Iasi



Organized by

- University of Medicine and Pharmacy "Gr. T. Popa", Iasi, Romania (UMP)
- European Centre for Secure Information and Systems, Romania Branch
- University of Edinburgh, United Kingdom
- Technical University of Iasi, Romania (TUI)

Hosted by

- Department of Medical Bioengineering, UMP, Iasi

Endorsed by

- Romanian Academy, Iasi Branch
- Society for Adaptive and Evolvable Hardware and Systems, ADEVO

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Co-chair: Adrian Lobontiu, Henri-Mondor Hospital, France

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Important Dates

- Proposals for special sessions: Feb 20, 2009
- Deadline for papers: March 9, 2009
- Author notification: April 6, 2009
- Camera ready: April 27, 2009
- Author/Early registration: May 30, 2009

Aim and scope

The symposium will offer a forum to discuss assistive and recuperative technologies that will have the most impact on humans health and quality of life in the coming decade.

The range of topics of interest is broad across diverse technologies, including the development and use of new materials and structures, procedures, robotics and prosthetic devices, biotechnologies, information technologies supporting diagnostic and intervention, managed healthcare, new techniques and technologies in neurosurgery, brain implants, neuro/brain-machine interfaces and control, neuro-robotics, biofeedback devices, computerized diagnostic, monitoring and therapy, novel medical devices and systems, bioinformatics, human genetic engineering, genetic technologies for therapy and enhancement, stem cells engineering, tissue engineering, artificial and bio-artificial organs, organ/tissue/blood/marrow preservation /banks, etc.

Submissions are sought in all of the above areas. However, a special focus of the 2009 ARTIPED is on technologies benefiting from the revolution in robotics and prosthetic devices. Thus, special sessions will be organized on the following topics:

- * Therapeutic and surgery robots for minimally invasive and remote operation procedures,
- * Assistive and caregiving robotics and systems,
- * Endoprosthetic devices, technologies and procedures for restoring functionality
- * Exoprosthetic devices, technologies and procedures, exoskeletons and other systems for restoring mobility,
- * Prosthetic technologies for systems for coping with perception, control and communication impairments (hearing, speech, and vision assistive systems, brain-machine interfaces and control, neuro-robotics),
- * Robotics and automation in genetic/stem cell/tissue engineering, intelligent information processing in new devices and robots

- The Symposium will offer the attendents the opportunity to participate in
- (1) overviews the state-of-the-art in selected disciplines (tutorials and keynotes)
- (2) presentation of recent research results (oral and poster presentations)
- (3) cross-disciplinary discussions, resulting in research ideas, techniques or collaboration initiatives (panels and break-off discussions on interdisciplinary topics, emerging technologies, new research initiatives).

ARTIPED 2009 will take place in Iasi, Romania. The capital of the medieval principality of Moldavia, Iasi is a city immersed in history and culture, yet trendy and vibrant due to the tens of thousands of university students that live in Romania's oldest - and second largest - university city. The social program will include a tour to the famous painted monasteries of Northern Moldavia and Iasi sightseeing.

ARTIPED 2009 is part of AT-EQUAL 2009, which includes:

LAB-RS July 22-24, 2009

2nd ECSIS Symposium on Learning and Adaptive Behaviours in Robotic Systems.
<http://www.labrs.info/labrs09.html>

ARTIPED July 24-26, 2009 The International Symposium on Assistive and Recuperative Technologies for Injured, ill, Pregnant, Elderly and people with Disabilities
<http://www.artiped.info/artiped09.html>

ISRS July 22-26, 2009 The International School on Robotics and Intelligent Systems, with the theme: *Assistive robots and systems for healthcare and rehabilitation*
<http://www.isrs.info/isrs09.html>