



The International Association
of Science and Technology
for Development

Call for Papers

**February 15 – 17, 2012
Innsbruck, Austria**

TUTORIALS

Submission

Proposals for three-hour tutorials must be submitted online by **September 15, 2011**. Submit tutorial proposals via the following web site address:

www.iasted.org/conferences/tutorialsubmit-764.html.

Proposal Format

A tutorial proposal should clearly indicate:

- The topic
- Background knowledge expected of the participants
- Objectives
- Time allocations for the major course topics
- The qualifications of the instructor(s)

JOURNALS

All papers submitted to this conference will be considered for possible publication in ACTA Press' international journals. For additional information about the submission of papers, please visit:

www.actapress.com/SubmissionInfo.aspx.

INDEXING

The proceedings will be sent for indexing in the following:

- El Compendex
- Inspec
- Google Scholar
- Scopus

CONCURRENT CONFERENCES

BioMed 2012 will be held in conjunction with the IASTED International Conferences on:

- Telehealth (Telehealth 2012)
- Assistive Technologies (AT 2012)

INTERNATIONAL PROGRAM COMMITTEE

** At Time of Printing*

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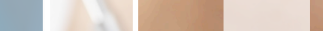
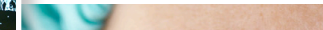
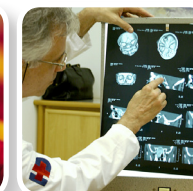
S. H. Teoh – Singapore

J. Tian – PR China

E. D. Ubeyli – Turkey

T. Webster – USA

V. Zanchi – Croatia



The International Association
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For more information, or to be placed on
our mailing list, please contact:

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IMPORTANT DEADLINES

Submissions due

September 15, 2011

Notification of acceptance

November 1, 2011

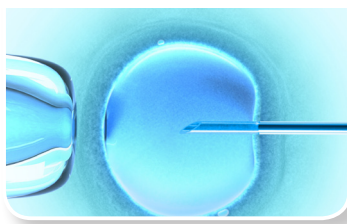
Final manuscripts due

November 15, 2011

Registration and full payment

December 1, 2011





SPONSOR

The International Association of Science and Technology for Development (IASTED)

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IEEE Engineering in Medicine and Biology Society

CONFERENCE CHAIR

Prof. Christian Hellmich

Vienna University of Technology, Austria

KEYNOTE SPEAKER

Prof. Heinz Redl

Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Austria

SPECIAL SESSION ORGANIZER

"3D Reconstruction in Medical Engineering"

Prof. Octavian Ciobanu

Gr.T.Popa University of Medicine and Pharmacy, Romania

PURPOSE

In recent years, with the aid of engineering and information technology, biomedical engineering has emerged as a high-tech field, generating innovation in such areas as medical imaging, bioinformatics, MEMS and nanotechnology, new biomaterials and sensors, medical robotics, and neurobiology. Scientists and engineers in this field have recently been working towards such advances as developing artificial organs that mimic natural human organs, conducting telemedicine, performing surgeries with robots, creating a laboratory-on-a-chip, and controlling robots through natural animal brain matter.

IASTED's Ninth International Conference on Biomedical Engineering will bring together leading experts in the fields of biomedical engineering. All papers submitted to this conference will be double blind reviewed by at least two reviewers. Acceptance will be based primarily on originality and contribution.

LOCATION

Innsbruck, a quiet mountain town nestled in the picturesque Inn Valley, is the perfect place to escape the hustle and bustle of the modern world. The capital of the state of Tyrol, in western Austria, Innsbruck is situated in a broad valley between some of the highest mountains of the famous Alps. Host to both the 1964 and 1976 Winter Olympics, Innsbruck is ideally located for the winter sport enthusiast, and offers beautiful views for those seeking the charm of a cheerful mountain village. Historically, Innsbruck was home to Emperor Maximilian the 1st, the legacy of whom can still be seen in the monuments that were erected in his honour. Come and join the growing number of visitors who have discovered the charm and beauty of Innsbruck!

SCOPE

The topics to be covered include but are not limited to:

Health Care Technology

- Artificial Organs
- Biotechnology And Pharmaceuticals
- Clinical Assessment and Patient Diagnosis
- Clinical Engineering
- Computer-aided Surgery
- Computers in Medical Education
- Electrotherapy
- Functional Electrical Stimulation (FES)
- Haptics
- Health Care Information Systems
- Implant Technology
- Interactive 3-D Models
- Lasers in Medicine
- Medical Physics
- Neural, Sensory Systems and Rehabilitation
- Patient Monitoring
- Prosthetics and Orthotics
- Radiotherapy
- Regenerative Medicine
- Rehabilitation Engineering
- Systems Physiology
- Telemedicine
- Therapeutic Engineering

Medical Devices, Measurement, and Instrumentation

- Bioinstrumentation
- Biomaterials
- Biomechanics
- Biomechatronics
- Biomedical Electronics
- Biosensors and Transducers
- Data and Signal Acquisition
- Dental Engineering
- Electronic Medical Devices
- Intelligent Instrumentation
- Lasers and Optical Systems
- Measurement and Instrumentation
- Microelectrical Mechanical Systems (MEMS)
- Microtechnology and BioMEMS
- Noninvasive Measurement
- Reliability and Failure
- Robotics
- Robotics and Medicine

Medical Imaging, Image Processing, and Signal Processing

- Biomedical Signal Processing
- Biophotonics
- Computed Tomography
- Data Representation and Visualization
- Integrated Medical Image Analysis
- Magnetic Resonance Imaging
- Magnetic Resonance Spectroscopy
- Medical Data Storage and Compression
- Medical Image Processing
- Medical Imaging (non MRI/S)
- Nanoparticles and Cell Imaging
- Nuclear Medicine
- Optical Imaging
- Ultrasound Imaging

Modelling, Simulation, Systems, and Control

- Bio-Aquatic System Design and Protection
- Bio-Environmental Engineering
- Biomedical Computing
- Electromagnetic Field Simulation
- Hemodynamics
- Sports and Ergonomics Simulation
- Surgery Simulation and Simulators
- Virtual Reality

Molecular Bioengineering

- Bioinformatics
- Bio-Nanotechnology
- Bionics
- Computational Systems Biology
- Cryobiology
- Drug Delivery and Pharmacokinetics
- Genomics and Genetic Engineering
- Labs-on-Chips
- Molecular and Cellular Engineering
- Neural Engineering
- Orthopaedic Bioengineering
- Pharmaceutical Engineering
- Tissue Engineering



SUBMISSION

Submit your paper via our website at:

www.iasted.org/conferences/submit-764.html.

All submissions should be in Adobe Acrobat (.PDF) format.

The IASTED Secretariat must receive your paper by **September 15, 2011**. Receipt of paper submission will be confirmed by email.

Initial Paper Requirements

Initial paper submissions should be **full papers**. Papers of up to 8 pages in length are included in the conference registration fee. An extra charge will apply for every additional page for papers longer than 8 pages. Authors are responsible for having their papers checked for style and grammar before submitting to IASTED. Papers may be rejected if the language is not satisfactory.

Formatting instructions for initial papers are available at

www.iasted.org/formatting-initial-page.html.

Reviewing

All papers submitted to this conference will be double-blind peer reviewed by at least two members of the International Program Committee and related technical committees. Acceptance will be based primarily on originality, significance, technical soundness, presentation, and references. The conference chair makes the final decision on the acceptance or rejection of the paper.

Acceptance and Registration

Notification of acceptance will be sent via email by **November 1, 2011**. Final manuscripts are due by **November 15, 2011**. Registration and final payment are due by **December 1, 2011**. Late registration fees or paper submissions will result in the papers being excluded from the conference proceedings.

Only one paper of up to eight pages is included in the regular registration fee. There will be an added charge for extra pages and additional papers.

Final Paper Requirements

The final paper must be correctly formatted and submitted online at <http://pdfportal.iasted.org>.

The formatting instructions can be found at:

www.iasted.org/formatting-final-page.html and must be strictly followed. The page limit for final papers is eight single-spaced pages in 10 point Times New Roman font.

Special Session Paper Submissions

Authors can also submit a paper to the special session *"3D Reconstruction in Medical Engineering"* at

www.iasted.org/conferences/chair2-764.html.

Please email all submissions to Prof. Octavian Ciobanu

(oct.ciobanu@gmail.com) by **September 15, 2011**.

