



CALL FOR PAPERS

The Eleventh IASTED International Conference on

Computer Graphics and Imaging ~CGIM 2010~

February 17 - 19, 2010
Innsbruck, Austria

SPONSOR

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

- Technical Committee on Graphics
- Technical Committee on Image Processing

CONFERENCE CHAIR

[Dr. Angel D. Sappa](#) – Computer Vision Center, Spain

KEYNOTE SPEAKER

Prof. Dieter Schmalstieg – Graz University of Technology, Austria

Speech title: ["The Future of Augmented Reality"](#)

PURPOSE

This conference is an international forum for researchers and practitioners interested in the advances in, and applications of, computer graphics and imaging. It is an opportunity to present and observe the latest research, results, and ideas in these areas. 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.

CGIM 2010 will be held in conjunction with the international conferences on:

- [Artificial Intelligence and Applications \(AIA 2010\)](#)
- [Modelling, Identification and Control \(MIC 2010\)](#)
- [Parallel and Distributed Computing and Networks \(PDCN 2010\)](#)
- [Software Engineering \(SE 2010\)](#)
- [Signal Processing, Pattern Recognition and Applications \(SPPRA 2010\)](#)
- [Biomedical Engineering \(BioMed 2010\)](#)

LOCATION

Innsbruck is nestled in the valley of the Inn River and tucked between the Austrian Alps and the Tuxer mountain range. It has twice hosted the Winter Olympics and is surrounded by the eight ski regions of the Olympic Ski World, including the Stubai Glacier, which offers skiing year round. Climbing the 14th century Stadtturm on Herzog Friedrich Strasse provides a stunning view of the town and the breathtaking scenery that surrounds it. Concerts at Ambras Castle provide listening pleasure in a beautiful renaissance setting. The sturdy medieval houses and sidewalk cafés of Old Town Innsbruck beckon you to sit for a while and watch people stroll by.

With its unique blend of historical, intellectual, and recreational pursuits, Innsbruck offers something for every visitor. CGIM 2010 will be held at the world-famous Congress Innsbruck, located in the heart of the city, near the historical quarter.

SCOPE

This conference will focus on six major themes. Topics include, but are not limited to:

Computer Graphics and Modelling

- Computer Aided Design
- Computer Graphics
- Graphical Modelling
- 3-D Object Extraction
- Surface Reconstruction
- Surface Modelling
- Solid Modelling
- Geometric Modelling
- Geometric Algorithms
- Computational Geometry
- Physically-based Modelling
- Multi-Resolution Modelling
- Hair Modelling
- Texture Models
- Modelling of Natural Phenomena
- Model Validation
- Computer Art
- Artificial Intelligence Techniques
- Applications

Rendering

- Illumination Models
- Volume Rendering
- Rendering Algorithms and Systems
- Parallel Rendering
- Monti-Carlo and Finite Element Techniques
- Image-based Rendering
- Radiosity
- Ray Tracing

Visualization

- Information Visualization
- Scientific and Mathematical Visualization
- Distributed Visualization
- Collaborative Visualization
- Graph and Network Visualization
- Visualization Algorithms
- Visualization and Knowledge Discovery
- Human Perception
- Virtual Reality
- Augmented Reality
- Visualization of Virtual Objects
- Real-Time Visual Simulation
- Visualization Software
- Computer Games

Imaging and Image Processing

- Image Acquisition Techniques
- Image and Pattern Analysis
- Image Compression
- Image Manipulation
- Pattern Recognition
- Image Segmentation
- Image Synthesis Techniques
- Digital Imaging
- Internet Imaging
- Digital Photography
- Digital Video
- Wireless Imaging
- Color Imaging
- Holographic Imaging

- ◆ Volumetric Imaging
- ◆ Multi-Spectral Imaging
- ◆ Hyper-Spectral Imaging
- ◆ Remote Sensing
- ◆ Medical Imaging
- ◆ Acoustic Imaging
- ◆ Image Ontology Imaging

Animation

- ◆ Computer Animation
- ◆ Artificial Intelligence and Animation
- ◆ Virtual Humans
- ◆ Robotics and Animation
- ◆ Human Figure Animation
- ◆ Facial Animation
- ◆ Behavioral Animation
- ◆ Character Animation
- ◆ Particle Systems

Human-Computer Interaction

- ◆ Graphical Interfaces
- ◆ Intelligent User Interfaces
- ◆ Speech Recognition
- ◆ Design Techniques
- ◆ User Requirements
- ◆ Collaborative System Design
- ◆ Web Designing

- ◆ Computer Vision
- ◆ Stereo Vision
- ◆ Image Quality
- ◆ Image Data Management
- ◆ Software Languages and Tools for

- ◆ Motion Capture
- ◆ Plausible Motion Simulation
- ◆ Motion Control and Kinematics
- ◆ Collision Detection
- ◆ Animation Languages
- ◆ Animation Systems
- ◆ Algorithms and Techniques
- ◆ Virtual Tours
- ◆ Applications

- ◆ Mobile Interfaces
- ◆ E-Learning
- ◆ Education
- ◆ Interface Software and Tools
- ◆ Interfaces and Agents
- ◆ Applications

PAPER SUBMISSIONS

Initial Papers

Submit your paper via our website at: www.iasted.org/conferences/submit-679.html.

All submissions should be in Adobe Acrobat (pdf) format. The IASTED Secretariat must receive your paper by **September 15, 2009**. Receipt of paper submission will be confirmed by email.

Complete the online initial paper submission form designating an author who will attend the conference and provide four key words to indicate the subject area of your paper. At least one of the key words must be taken from the list of topics provided under Scope. Initial paper submissions should be approximately eight pages. Formatting instructions are available at: <http://www.iasted.org/formatting-initial-page.html>.

All papers submitted to IASTED conferences must be previously unpublished and may not be considered for publication elsewhere at any time during IASTED's review period. Authors are limited to a maximum of three paper submissions. Authors are responsible for having their papers checked for style and grammar prior to submission to IASTED. Papers may be rejected if the language is not satisfactory.

Notification of acceptance will be sent via email by **November 1, 2009**. Final manuscripts are due by **November 15, 2009**. Registration and final payment are due by **December 1, 2009**. Late registration fees or paper submissions will result in the papers being excluded from the conference proceedings.

Final Papers

Send your final manuscripts via email to: finalpapers@iasted.org. The subject line for the final manuscript submission must include your six-digit paper number. The formatting instructions can be found at: www.iasted.org/formatting-final.htm and must be strictly followed. The page limit for final papers is eight single-spaced pages in 10 point Times New Roman font. Only one paper of up to six pages is included in the regular registration fee. There will be an added charge for extra pages and additional papers.

TUTORIALS

Proposals for three-hour tutorials should be submitted online by **September 15, 2009**. Tutorials are to be submitted via the following website address:

www.iasted.org/conferences/tutorialsubmit-679.html.

A tutorial proposal should clearly indicate the topic, background knowledge expected of the participants, objectives, time allocations for the major course topics, and the qualifications of the instructor(s).

SPECIAL SESSIONS

Persons wishing to organize a special session should submit a proposal via email to: calgary@iasted.org. Proposals should include a session title, a list of the topics covered, and the qualifications and brief biography of the session organizer(s). Papers submitted to the special session must be received by **September 15, 2009**, unless otherwise stipulated by the Special Session Organizer. A minimum of five papers must be registered and fully paid in order for this session to be included in the conference program. More information on special sessions is available at: www.iasted.org/conferences/specialsession-679.html.

JOURNALS

Expanded and enhanced versions of papers published in the conference proceedings can also be considered for inclusion in one of the IASTED journals. Information on the submission of papers to journals is available at www.actapress.com/SubmissionInfo.aspx.

Whole proceedings as well as single papers can now be purchased online. Please visit ACTA Press: www.actapress.com.

IMPORTANT DEADLINES

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| Submissions due | September 15, 2009 |
| Notification of acceptance | November 1, 2009 |
| Camera-ready manuscripts due | November 15, 2009 |
| Registration Deadline | December 1, 2009 |

INTERNATIONAL PROGRAM COMMITTEE

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