



**6TH INTERNATIONAL CONFERENCE
ON CONSTRUCTION APPLICATIONS OF VIRTUAL REALITY**
3-4 August 2006
Sheraton World Resort, Orlando, Florida,
<http://www.bcn.ufl.edu/CONVR2006/>

Mission

Virtual Reality (VR) is an exciting new technology that offers considerable potential benefits for all stages of Architecture, Engineering and Construction (AEC) processes, from initial planning and conceptual design to facility management and operations. Augmented Reality (AR) is a natural evolution of the VR technology; it allows the user to see the real world, with virtual objects superimposed upon or merged with the real world. Therefore AR supplements reality, rather than completely replacing it. VR and AR can be applied as a vehicle for the whole life cycle design and operation of AEC projects. Sustainable research efforts throughout the world are pushing the frontier of knowledge in terms of utilizing and implementing VR and AR.

The mission of the conference is to bring together scientists, researchers, practitioners and industrialists in all areas of Architecture, Engineering and Construction and promote efficient exchange of ideas and develop mutual understanding of the needs and potential applications of VR and AR technologies. The objective of the conference is to report and disseminate ideas, progress, and products of innovative international research activities in this field and formulate strategies for future research directions.

CONVR 2006

The conference is organized by the [Rinker School of Building Construction](#) in the [College of Design, Construction and Planning](#), at the [University of Florida](#), and will be held in Orlando, Florida. The first Construction and Virtual Reality (CONVR) conference was held at the University of Teesside, UK(2000). Subsequent conferences were held in Chalmers, Sweden (2001); in Blacksburg, Virginia (2003); in Lisbon, Portugal (2004); and in Durham, UK (2005). Exciting and wide-ranging technical and industrial VR application papers were presented at these conferences with the participation of researchers and industry delegates from many countries.

The Rinker School takes the opportunity to host the sixth CONVR conference, a rich international forum for research and debate on the current initiatives and future challenges of Virtual Reality (VR) and Augmented Reality (AR) in Architecture, Engineering and Construction (AEC). Orlando is one of the world's premier travel destinations. More than 50-million people visit the Orlando area every year, enjoying the many attractions, beaches, and events that make it a great place to visit.

Call for Papers, Posters, and Demonstrations

Participants are invited to submit papers, posters (note: software demonstrations should be made part of

a poster) focusing on new algorithms, case studies, new practices, organizational issues and applications of VR and AR in AEC. Topics will include:

- **3D Modeling and Visualization**
- **4D Modeling and Simulation**
- **nD Modeling**
- **Visual Simulation for Community Planning**
- **3D Reconstruction of Buildings, Urban Landscapes and Cities**
- **Modeling the Physics of Buildings**
- **Procedural Modeling and Representation of Natural Phenomena**
- **3D Geographic Information Systems**
- **Collaborative Virtual and Augmented Environments**
- **Autonomous Agents in Virtual and Augmented Environments**
- **Multimodal Interaction**
- **Sketch-based Interfaces**
- **Mobile and Wearable Computing for Indoor and Outdoor Scenarios**
- **Outline Design and Feasibility Studies**
- **Product Development Design**
- **Construction Planning and Scheduling**
- **Visual Construction Assembly and Inspection**
- **Visual Safety Management**
- **Facility Management and Maintenance**
- **Standards for AEC: IFC**
- **Standards for the Internet: VRML and X3D**
- **Ontologies for Modeling and Visualization**
- **Other related areas**

Industry participation is highly encouraged. Two main factors are taken into account regarding the evaluation and selection of submitted papers: they must be up-to-date and be of high quality and innovative. Papers submitted by students up to PhD level and developed in the framework of their studies are particularly welcome.

Authors of Refereed Papers will have the opportunity to publish their work in a special issue of the International e-Journal of Construction ([IeJC](#)).

Information for Prospective Authors

The proposed papers should not have been submitted for publication or presented in any other meeting, workshop or conference. Submitted papers will be peer-reviewed. Authors who submit final documents agree that at least one of the authors will register and attend the conference to present the paper. The papers must be written in English. The papers should not exceed twelve (12) A4 pages. Short papers associated with posters shall not exceed four (4) A4 pages. There will be limited equipment available for displaying



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demonstrations associated with the presented works. The authors should inform the organizers of any special equipment requirements as soon as possible and no later than 30 July. Submissions should be made electronically (in PDF or MS-Word) formatted according to the instructions found at:

<http://www.bcn.ufl.edu/CONVR2006/>.

Additional Information

Additional information about CONVR2006 may be requested from the Organization Committee by emailing to CONVR2006@mail.bcn.ufl.edu or by visiting <http://www.bcn.ufl.edu/CONVR2006/>.

Registration Fees

Full Registration* - \$450 by 23 June 2006.
- \$500 after 23 June 2006.

Student Registration** - \$100

Social Event (banquet for extra guest and students) - \$50

Full registration includes sessions, proceedings, coffee breaks, luncheons and social event.

*At least one author of an accepted paper must have a full registration

**Student registration includes sessions, proceedings, coffee breaks and luncheons and applies to full-time PhD and Masters students only (Proof of status must be faxed with the registration form); for an extra fee (\$50) students may attend the social event. Online registration forms are available at:
<http://www.bcn.ufl.edu/CONVR2006/>

Important Dates

- 1 March** Start of submission of papers and posters. Start of registration.
- 31 May** Last day for Submission of papers and posters. No extension will be granted.
- 15 May - 8 June** Review of papers and posters.
- 1 July** Notification to authors on papers & posters.
- 7 July** Registrations are due for presenters of accepted papers.
- 21 July** Submission of final version of papers and posters.
- 2 August – noon** On site Registration begins
- 3-4 August** Conference.

Organizing Committee

R. Raymond Issa, (raymond-issa@ufl.edu), University of Florida, USA, Scientific Chair
Ian Flood, (flood@ufl.edu), University of Florida, USA, Scientific Co-Chair
Nash Dawood (N.N.Dawood@tees.ac.uk), University of Teesside, United Kingdom, Scientific Co-Chair
José Miguel Salles Dias (miguel.dias@iscte.pt), ISCTE, Portugal, Scientific Co-Chair
Dottie Beaupied (CONVR2006@mail.bcn.ufl.edu), University of Florida, USA, Conference Secretary

Scientific Committee *

Vian Ahmed; University of Salford; UK
Sabah Alkass; Concordia University; Canada
Robert Amor; University of Auckland; N. Zealand
Hong-Seob Ahn; Kunsan National University; Korea
Paulo J. Bártolo; Polytechnic Institute of Leiria; Portugal
Peter Bonsma; TNO Bouw; Netherlands
Doug Bowman; Virginia Tech; USA
Serafim Castro; University of Teesside; UK
Moon Y. Cho; KICT; Korea
Robert F. Cox; University of Florida; USA
Paulo Dias; IEETA; Portugal
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Fátima Farinha; UALg / ICIST; Portugal
Clive Fencott; University of Teesside; UK
Terrence Fernando; University of Salford; UK
Ricardo Galli; UIB; Spain
Ricardo Gonçalves; Uninova; Portugal
Amin Hammad; Concordia Inst.; Canada
David Heesom; University of Wolverhampton; UK
Brian Hobbs; University of Teesside; UK
Joaquim Jorge; IST/INESC; Portugal
Vineet Kamat; University of Michigan; USA
Farzad Khosrowshahi; University of Salford; UK
Young-Hwan Lee, Construction Research Institute; Korea
Robert Lipman; NIST; USA
Caneparo Luca; Politecnico di Torino; Italy
Koji Makanae; Miyagi University; Japan
Tomi Makkonen; University of Oulu; Finland
Adérito Fernandes Marcos; UM/CCG; Portugal
João Mena de Matos; EDC; Netherlands
John Messner; Penn State University; USA
Khalid Naji; University of Qatar; Qatar
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Tulio Sulbaran; University of Southern Mississippi; USA
José Carlos Teixeira; UC; Portugal
Walid Thabet; Virginia Tech; USA
Walid Tizani; University of Nottingham; UK
Xiangyu Wang; University of Sydney; Australia
Börje Westerdahl; Chalmers University; Sweden
Haiyan Xie; University of Arkansas-Little Rock; USA
Yimin Zhu; Florida International University; USA

* **Presence to be confirmed**



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