



The 16th International Conference on Construction Applications of Virtual Reality

Date: 11-13 December 2016

Venue: Regal Kowloon Hotel, Tsim Sha Tsui, Hong Kong

Introduction

The International Conference on Construction Applications of Virtual Reality (CONVR) is one of the leading international conferences in the areas of building information modeling (BIM), virtual reality (VR), augmented reality (AR), and Construction IT. The conference is also known for having a unique blend of participants from both academia and industry in the architecture, engineering, construction and operation (AECO) industry. The annual conference has been organized in different regions such as UK, USA, Australia, Japan, Canada, UAE and Taiwan since 2000. It is the first time the conference is organized in Hong Kong or in China.

Jointly organized by the Hong Kong University of Science and Technology and Teesside University this year, CONVR 2016 will be held in Hong Kong and will bring together AECO researchers and practitioners from around the globe to report on and exchange the latest development, ideas and applications, stemming from innovative research activities in the area of BIM, VR, AR, and other Construction IT technologies. Besides several exciting keynote presentations, over 50 peer-reviewed papers will be presented in parallel sessions. There will also be social events (conference reception and banquet), mini-symposiums, and technical visits in the conference.

For more details, please refer to the conference website at <http://www.convr2016.com>.

Academic Keynote Speakers

Prof. Kincho H. Law

Professor, Civil and Environmental Engineering,
Engineering Informatics Group
Stanford University, USA

Prof. Lucio Soibelman

Professor and Chair, Sonny Astani Department of Civil and
Environmental Engineering
University of Southern California, USA

Prof. Calvin Kam

Adjunct Professor, Center for Integrated Facility
Engineering (CIFE)
Stanford University, USA

Prof. Chimay J. Anumba

Dean, College of Design, Construction and Planning
University of Florida, USA

Prof. Xiangyu Wang

Curtin Director of Australasian Joint Research Centre for
Building Information Modelling (BIM), Department of
Construction Management
Curtin University, Australia

Prof. Rafael Sacks

Associate Professor, Civil and Environmental engineering
Israel Institute of Technology, Israel

Industry Keynote Speakers

Ms. Ada Fung

Deputy Director of Housing (Development & Construction)
Hong Kong Housing Authority, Hong Kong

Mr. Tai Fatt Cheng

Deputy Managing Director, BCAA and BERII
Building and Construction Authority, Singapore

Ir Kevin Poole

Executive Director
Hong Kong Airport Authority, Hong Kong

Mr. Kuang Jiazhi

General Manager (Department of Architectural Digitalization
and BIM), China Construction Digital International, China

Topics

Topics include but not limited to:

- Building Information Modeling (BIM)
- Virtual Reality (VR) and Augmented Reality (AR) in AECO Applications
- Simulation and Automated Approaches in Construction
- Design and Construction Visualization
- 3D Geographic Information Systems (GIS)
- Collaborative Visual and Augmented Environments
- Interactive Media Environments
- Lifecycle Information and Knowledge Management
- Ontologies for Modeling and Visualization
- Mobile and Wearable Computing
- Green and Smart Buildings

Supporting Organizations



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PROGRAM

11 Dec 2016, Sunday			
Time	Venue: TBD		
17:00 – 19:00	Registration		
18:00 – 20:00	Pre-Conference Reception		
12 Dec 2016, Monday			
Time	Venue: Versailles (3/F)		
08:30 – 09:00	Registration		
09:00 – 09:20	Opening Ceremony		
09:20 – 10:20	Keynote Presentations: <i>Recent BIM Developments in Hong Kong & How We Can All Play A Part</i> Ms. Ada Fung (Hong Kong Housing Authority, Hong Kong) <i>Applications of Computing and AI in Engineering</i> Prof. Kincho H. Law (Stanford University, USA)		
10:20 – 10:40	Tea Break		
10:40 – 12:10	Keynote Presentations: <i>BIM and IT in Construction – The Research to Practice Gap</i> Prof. Lucio Soibelman (University of Southern California, USA) <i>Implementing Intelligent Semantic Enrichment – the SeeBridge Project</i> Prof. Rafael Sacks (Israel Institute of Technology, Israel) <i>Building BIM Capacity in Singapore</i> Mr. Tai Fatt Cheng (Building and Construction Authority, Singapore)		
12:10 – 12:20	Group Photo		
12:20 – 13:40	Luncheon		
Time	Tivoli (3/F)	Luxembourg (3/F)	Versailles (3/F)
13:40 – 15:10	Session I-A <i>Theme: BIM Adoption and Project Management</i>	Session I-B <i>Theme: Laser Scanning and Photogrammetry</i>	Mini-Symposium I <i>Theme: Sharing of BIM Cases</i>
15:10 – 15:30	Tea Break		
15:30 – 17:00	Session II-A <i>Theme: Computer Vision and UAV</i>	Session II-B <i>Theme: Data Visualization and VR</i>	Session II-C <i>Theme: BIM, VR and AR for Construction and Safety (I)</i>
17:00 – 22:00	Conference Banquet with Tour		

13 Dec 2016, Tuesday

Time	Venue: Versailles (3/F)		
09:00 – 10:30	Keynote Presentations: <i>BIM Technology Enabled Smart Airport Design and VR Applications in Third Runway Development</i> Ir Kevin Poole (Hong Kong Airport Authority, Hong Kong) <i>Cyber-Physical Systems in Construction – Development Lessons and Future Directions</i> Prof. Chimay J. Anumba (University of Florida, USA) <i>Global VDC Adoption – Insights into Best Practices and Challenges</i> Prof. Calvin Kam (Stanford University, USA)		
10:30 – 10:50	Tea Break		
10:50 – 12:20	Keynote Presentations: <i>Towards Smart Industry in Construction: a Pathway of Converging Research</i> Prof. Xiangyu Wang (Curtin University, Australia) <i>Integrated Management of BIM Design and Construction in Mainland China</i> Mr. Jiazhi Kuang (China Construction Digital International, China)		
12:20 – 13:40	Luncheon		
Time	Tivoli (3/F)	Luxembourg (3/F)	Versailles (3/F)
13:40 – 15:10	Session III-A <i>Theme: BIM for Design, Manufacturing and FM</i>	Session III-B <i>Theme: BIM, GIS and Urban Computing</i>	Mini-Symposium II <i>Theme: Discussion on Academia-Industry Collaboration</i>
15:10 – 15:30	Tea Break		
15:30 – 17:00	Visualization in Engineering (VIE) Editorial Board Meeting	Session IV-A <i>Theme: Big Data and IT in Construction</i>	Session IV-B <i>Theme: BIM, VR and AR for Construction and Safety (II)</i>
17:00 – 17:15	Closing Ceremony		

14 Dec 2016, Wednesday

Time	Technical Visits
09:00 – 12:30	(Optional) Technical Visit 1 – Zero Carbon Building and CIC BIM Center*
14:00 – 17:30	(Optional) Technical Visit 2 – Xiqu Center*

* Technical Visits: Free transportations from and back to the Regal Kowloon Hotel will be provided upon successful registration.