

Conference Schedule.

Day 1 / Dec. 9		UK Time
Welcome and Checking your connection		11:00 - 11:15
The CONVR journey, 21st version and looking forward to the future		11:15 - 11:45
Keynote 1: Test methods for measuring physical and mental stress of construction workers - Professor Heng Li		11:45 - 12:45
Lunch Break		12:45 - 13:30
Session 1		
A Project Life-Cycle Oriented Review of Augmented Reality Application in Construction		
BIOMIMETIC INNOVATION IN THE UK CONSTRUCTION INDUSTRY: AN ASSESSMENT OF ADOPTION READINESS		13:30 - 14:30
TOTAL BIM PROJECT: THE FUTURE OF A DIGITAL CONSTRUCTION PROCESS		
AN ANALYSIS OF BIM IMPLEMENTATION IN THE DESIGN PHASE FOR COMMERCIAL BUILDINGS		
Break		14:30-14:45
Keynote 2: Industry 4.0 Solutions for Building Design and Construction: A Paradigm of New Opportunities		
Professor Farzad Rahimian		14:45-15:45
Session 2		
A MULTI-LEVEL KNOWLEDGE MASTERY ASSESSMENT SYSTEM FOR CONSTRUCTION SAFETY EDUCATION IN VIRTUAL REALITY		
The Application of Eye-tracking Technology in Architecture Engineering and Construction Industry: A Systematic Review		15:45-16:45
A DIGITAL TWIN FRAMEWORK FOR EQUIPMENT EMISSIONS FROM CONSTRUCTION SITE OPERATIONS		
Semi-automatic generation of virtual reality procedural scenarios for operation in construction based on 4D building information models		
Day 2 / Dec. 10		UK Time
Keynote 3: Building Blocks - Kate Baucherel		9:00-10:00
Break		10:00-10:15
Session 1		
A SYSTEMATIC REVIEW OF AUGMENTED REALITY APPLICATIONS IN CONSTRUCTION - A FOCUS ON PRODUCTIVITY GROWTH		
EVALUATING IN-THE-MOMENT FEEDBACK IN VIRTUAL REALITY BASED ON PHYSIOLOGICAL AND VOCAL MARKERS FOR PERSONALIZED SPEAKING TRAINING		10:15-11:15
EXPERIMENTAL STUDY ON CONSTRUCTION PLANNING THROUGH 4D BIM-BASED VIRTUAL REALITY FOR LIGHT STEEL FRAMING PROJECT		
THE POTENTIAL FOR INTELLIGENT PASSIVE ROOM ACOUSTIC TECHNOLOGY IN CLASSROOMS: A BIM-BASED SIMULATION		
Break		11:15-11:30
Session 2		
DIGITAL ASSET MANAGEMENT: A PROOF OF CONCEPT FOR AN AUTOMATED CHANGE ROADMAP GENERATOR		
From BIM student to BIM professional: How work-ready are Australian Universities BIM graduates?		11:30-12:30
A SCIENTOMETRIC REVIEW OF REALITY CAPTURE APPLICATIONS IN THE BUILT ENVIRONMENT		
The development of an adaptable outcome-focused measurement and management methodology, incorporating risk mitigation assignment in support of Collaborative BIM		
Lunch Break		12:30-13:30
Keynote 4: Digital Regulatory Compliance - Prof Bimal Kumar		13:30-14:30
Break		14:30-14:45
Session 3		
AUTOMATED DETECTION OF LEARNING STAGES AND INTERACTION DIFFICULTY FROM EYE-TRACKING DATA WITHIN MIXED REALITY LEARNING ENVIRONMENT		
ACTIVITY RECOGNITION FROM TRUNK MUSCLE ACTIVATION FOR WEARABLE AND NON-WEARABLE ROBOT CONDITIONS		14:45-16:00
TOWARDS A SEMANTIC COMMON MODEL LIBRARY FOR WATER INFRASTRUCTURE ASSETS		
STRATEGIES FOR IMPLEMENTING BIG DATA CONCEPT IN THE CONSTRUCTION INDUSTRY OF THE DOMINICAN REPUBLIC		
Using Voice-assistant for data management in a BIM model: AI-assisted BIM solution		