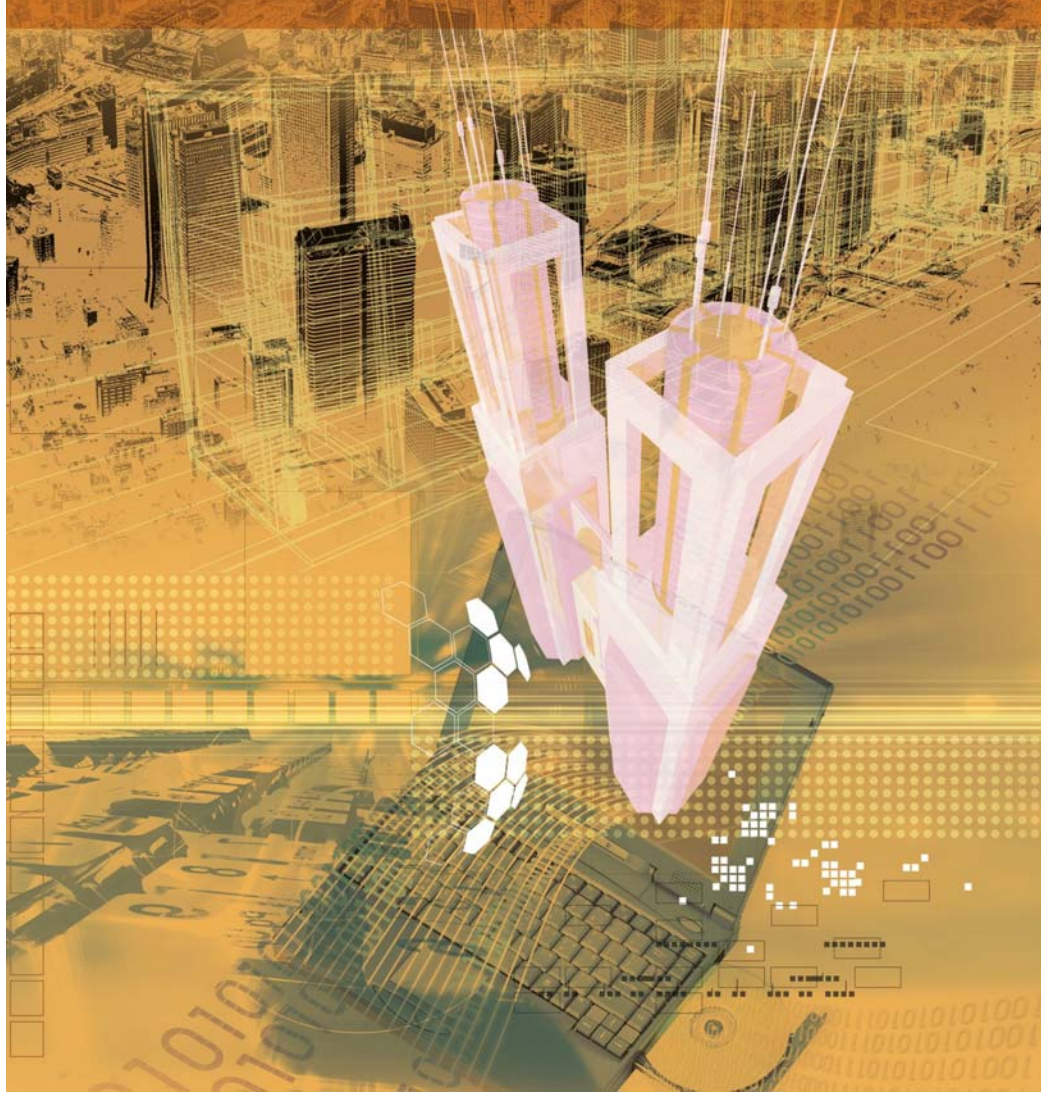


# COMPUTING IN ARCHITECTURE: Re-Thinking The Discourse



# ASCAAD 2006 Conference Program



# Day I (Tuesday – April 25, 2006)

Time	Activity
08:00 - 09:00	Registration
09:00 – 09:30	Opening Ceremony
09:30 - 10:30	Keynote Address: <b>Dr. Miguel Dias</b> INDUSTRIAL AUGMENTED REALITY: THEORY AND APPLICATIONS
10:30 - 10:45	Coffee Break <i>(on house)</i>
10:45 - 12:30	<p><b>SESSION 1</b>  <b>Digital Design Education</b> – <i>Chair: Dr Ahmed Mokhtar</i>            (5 papers x 15 minutes presentation + 30 minutes discussion)</p> <p>A COMPARATIVE STUDY OF DIGITAL AND TRADITIONAL TOOLS FOR PARTICIPATIVE DESIGN <i>(page 35)</i>  <b>Rashidah AB. Rahman and Alan Day</b>            University of Bath, UK</p> <p>ADAPTING DIGITAL TECHNOLOGIES TO ARCHITECTURAL EDUCATION NEED <i>(page 5)</i>  <b>Andreas Luescher and Salim Elwazani</b>            Bowling Green State University, USA</p> <p>EVOLUTION OR REVOLUTION: IS DIGITAL CONCEPTUAL DESIGN THE WAY FORWARD FOR ARCHITECTS? <i>(page 7)</i>  <b>Tahar Kouider</b>            University of Aberdeen, UK</p> <p>COLLABORATIVE ARCHITECTURAL DESIGN AS A REFLECTIVE CONVERSATION: AN AGENT FACILITATED SYSTEM TO SUPPORT COLLABORATIVE CONCEPTUAL DESIGN <i>(page 37)</i>  <b>G. Arjun and J. Plume</b>            The University of New South Wales, Australia</p> <p>THE DIGITAL DESIGN PROCESS: REFLECTIONS ON ARCHITECTURAL DESIGN POSITIONS ON COMPLEXITY AND CAAD <i>(page 38)</i>  <b>Ali Chougui</b>            University of Ferhat Abba, Algeria</p>

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Time	Activity
12:30 - 14:00	Guidance to AUS Facilities and Lunch Break
14:00 - 15:00	Keynote Address: <b>Prof. Dr. Gerhard Schmitt</b> INFORMATION ARCHITECTURE AND SCIENCE CITY
15:00 – 15:15	Coffee Break <i>(on house)</i>
15:15 - 17:15	<p><b><u>SESSIONS 2</u></b>  <b>Computer Applications and Future Architecture</b> – <i>Chair: Dr Zaki Mallasi</i>  (6 papers x 15 minutes + 30 minutes discussion)</p> <p>DESIGN INFORMATICS: A CASE BASED INVESTIGATION INTO PARAMETRIC DESIGN SCRIPTING AND CNC BASED MANUFACTURING TECHNIQUES <i>(page 12)</i>  <b>Nimish Bioria, Kas Oosterhus and Cas Aalbers</b>  Technical University of Delft and ONL Rotterdam, the Netherlands</p> <p>DESIGNING WITH MACHINES: SOLVING ARCHITECTURAL LAYOUT PLANNING PROBLEMS BY THE USE OF A CONSTRAINT PROGRAMMING LANGUAGE AND SCHEDULING ALGORITHMS <i>(page 15)</i>  <b>Thorsten M. Loemker</b>  Technische Universität Dresden, Germany</p> <p>AN ANALYSIS OF THE APPLICATIONS OF RAPID PROTOTYPING IN ARCHITECTURE <i>(page 17)</i>  <b>Sajid Abdullah, Ramesh Marasini and Munir Ahmad</b>  University of Teesside, UK</p> <p>INTEGRATING MASS CUSTOMIZATION WITH PREFABRICATED HOUSING <i>(page 19)</i>  <b>Joseph, C. H. Huang, Robert J. Krawczyk and George Schipporeit</b>  Illinois Institute of Technology, USA</p> <p>AN APPROACH TO 3D CONCEPTUAL MODELLING <i>(page 36)</i>  <b>Chie-Chieh Huang</b>  National Chiao Tung University, Taiwan</p> <p>“NOT EVERY NEW MONDAY...”: ON USING COMPUTER-GAMES TECHNOLOGY IN ARCHITECTURAL DESIGN EDUCATION <i>(page 2)</i>  <b>Frank Petzold and Jan Frohburg</b>  Bauhaus University Weimar, Germany</p>
20:00 - 21:30	UCPN Sponsored Conference Dinner at Radisson SAS Resort, Sharjah

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## Day II (Wednesday – April 26, 2006)

Time	Activity
08:30 - 09:30	<p style="text-align: center;"><b>Keynote Address: Dr. Miguel Dias</b>                      REAL-LIFE INDUSTRIAL AUGMENTED REALITY USE CASES</p>
09:30 - 09:45	<p style="text-align: center;"><b>Coffee Break</b> <i>(on house)</i></p>
09:45 - 11:30	<p><b>SESSION 3</b>  <b>Theory and Critical Evaluation</b> – <i>Chair: Dr. Jamal AL-Qawasmi</i>                      (5 papers x 15 minutes presentation + 30 minutes discussion)</p> <p>REDEMPTIVE TECHNOLOGIES II: THE SEQUEL (A DECADE LATER) <i>(page 22)</i>  <b>Michael Stanton</b>                      American University of Beirut, Lebanon</p> <p>THE AUTOPOIESIS AND MIMESIS OF ARCHITECTURE <i>(page 24)</i>  <b>George Katodrytis</b>                      American University of Sharjah, UAE</p> <p>PLAN IS DEAD: TO BIM OR NOT TO BIM, THAT IS THE QUESTION <i>(page 26)</i>  <b>Michael A. Ambrose</b>                      University of Maryland, USA</p> <p>FUTURE OF COMMUNICATING DIGITAL DESIGN IN ARCHITECTURE: OVERCOMING THE DIVISIVE POWER OF COMPUTER AIDED DESIGN <i>(page 27)</i>  <b>Florian Techel</b>                      University of Sharjah, UAE</p> <p>MUSING HEIDEGGERIAN CYBERSPACE <i>(page 32)</i>  <b>Jon Daniel Davey</b>                      Southern Illinois University, USA</p>
11:30 - 11:45	<p style="text-align: center;"><b>Coffee Break</b> <i>(on house)</i></p>

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Time	Activity
<p>11:45 - 13:45</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Page # refers to the Book of Abstracts</p>	<p><b><u>SESSIONS 4</u></b>  <b>Visualization and Digital Reconstruction</b> – <i>Chair: Dr Ahmad Okeil</i>  (6 papers x 15 minutes + 30 minutes discussion)</p> <p>STRUCTURAL PERFORMANCE MODELLING IN ARCHITECTURAL DESIGN EDUCATION <i>(page 43)</i>  <b>Bruce Lonman</b>  American University of Sharjah, UAE</p> <p>ISLAMIC ARCHITECTURE AND DIGITAL DATABASES <i>(page 44)</i>  <b>Rasha Ali</b>  The University of Paris, France</p> <p>DIGITAL RECTIFIED IMAGERY: A SURVEY METHOD FOR DESIGN AND CONSERVATION PROJECTS <i>(page 45)</i>  <b>José Lerma and Salim A. Elwazani</b>  Polytechnic University of Valencia; Bowling Green State University, Ohio, USA</p> <p>ADAPTIVE GENERATIVE PATTERNS: DESIGN AND CONSTRUCTION OF PRAGUE BIENNALE PAVILION <i>(page 47)</i>  <b>Stanislav Roudavski, Giorgos Artopoulos and Francois Penz</b>  Cambridge University, UK</p> <p>I<sup>3</sup>-EYE-CUBE: INTERACTIVE INTUITIVE MIXED REALITY INTERFACE FOR VIRTUAL ARCHITECTURE <i>(page 49)</i>  <b>Stephen K. Wittkopf</b>  National University of Singapore, Singapore</p> <p>VIRTUAL 3D CITY MODELS FOR PLANNING AND ARCHITECTURE <i>(page # not available)</i>  <b>Kilian Ulm</b>  Cybercity AG, Zurich, Switzerland</p>
<p>13:45 – 15:00</p>	<p><b>Lunch Break</b></p>

Time	Activity
15:00 - 17:00	<p><b>SESSIONS 5</b>  <b>Environmental Modeling and Evaluation</b> – Chair: George Katodrytis  (4 papers x 15 minutes + 30 minutes discussion)</p> <p>CRITICAL ENVIRONMENTALISM AND THE PRACTICE OF RE-CONSTRUCTION (page 29)  <b>Craig Anz<sup>1</sup> and Akel Ismail Kahera<sup>2</sup></b>  <sup>1</sup> South Illinois University, USA  <sup>2</sup> Prairie View A&amp;M, USA</p> <p>USING SPACE SYNTAX SOFTWARE IN EXPLAINING CRIME (page 52)  <b>Linda N. Nubani</b>  American University in Dubai, UAE</p> <p>VISUALIZATION MANAGEMENT AND INSPECTION FOR PLUMBING CONSTRUCTION QUALITY CONTROL (page 53)  <b>Naai-Jung Shih and Pin-Hung Wang</b>  National Taiwan University of Science and Technology, Taiwan</p> <p>EVALUATION OF A HIGHER EDUCATION SELF-LEARNING INTERFACE (page 55)  <b>A. Bennadji<sup>1</sup> and A. Bellakhal<sup>2</sup></b>  <sup>1</sup> The Robert Gordon University, UK  <sup>2</sup> Universite Mohammed Khider , Algeria</p>
17:00 - 18:00	Conference Closing Remarks
18:00 - 19:45	ASCAAD General Assembly Meeting
20:30 – 22:00	Optional Dinner (pay as you go)

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### Day III (Thursday – April 27, 2006)

Time	Activity
09:00 – 15:00	Conference Trip