



THE KINGDOM UNIVERSITY



جامعة
المملكة
THE KINGDOM
UNIVERSITY

College of Architecture Engineering and Design
The Kingdom University
Manama, Bahrain

Under the Patronage of
His Excellency Sheikh Hisham Bin Abdulrahman Al Khalifa
Capital Governor - Bahrain

6th ASCAAD 2012

CAAD | INNOVATION | PRACTICE

21-23 Feb. Manama, Bahrain



Conference venue
Hotel Novotel Al Dana Resort Bahrain
121 Sheikh Hamad Causeway, Manama, Bahrain





Conference Program

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21-23 Feb. Manama- Bahrain

Day 1: Tuesday 21 February, 2012

08:30-09:30 am	Registration
09.30 - 09.45am	Opening Ceremony and welcome speeches Prof. Yousef Abdul Ghaffar <i>President of the Kingdom University –Bahrain</i>
09.45 - 10.00am	His Excellency Sheikh Hisham Abdulrahman Al Khalifa Capital Governor -Bahrain
10.00 - 10.15am	ASCAAD The Representative of the ASCAAD board of directors
10.15 -11.00 am	Keynote I: Designing CAAD for Creativity Mary Lou Maher Professor of Design Computing, University of Sydney Senior Research Scientist, University of Maryland (USA) <i>Email: marylou.maher@gmail.com</i>
11.00 - 11.15 am	Open Discussion
11.15 - 11.30 am	Coffee Break
11.30 - 13.15 pm	Voice of Experience I Session Chair: Dr. Hesham El Marsafawy Architecture, Digital Techniques & Project Management The Experience of Gulf House Engineering (GHE) <i>Dr. Souheil El-Masri, Mazen Kana'an, Mohameed Elanany</i> <i>Director, Arch. Design Senior Arch. & Team Leader Senior Arch. & Team Leader (Bahrain)</i> <i>Email: ad@ghe.com.bh, ads8@ghe.com.bh , & ads6@ghe.com.bh</i>
	3D Printing in Conservation and the Built Environment <i>Michael Poole</i> <i>University of Lincoln (UK)</i> <i>Email: mpoole@lincoln.ac.uk</i>
	Creative Design between Representation and Simulation <i>Dr. Ahmed El-Seragy</i> <i>Arab Academy for Science, Technology & Maritime Transport (London -UK)</i> <i>Email: ahmed.elseragy@aast.edu - aelseragy@lincoln.ac.uk</i>
13.15 - 13.30 pm	Open Discussion
13.30 - 14.30 pm	Lunch & Prayer

14.30 - 15.15 pm	Session I: Generative Design System
	Session Chair: Dr. Bhzad Sidawi
	Using Situated FBS Ontology to Explore Designers' Patterns of Behavior in Parametric Environments <i>Rongrong Yu, Ning Gu & Michael Ostwald (Australia)</i> <i>Email: rongrong.yu@uon.edu.au</i>
	Structurally Intelligent Swarms <i>JOshua M. Taron (Canada)</i> <i>Email: jmtaron@ucalgary.ca</i>
	The Use of Smart Geometry in Islamic Patterns <i>Mai M. Abdelsalam (Egypt)</i> <i>Email: maiabdelsalam@gmail.com</i>
15.15 - 15.30 pm	Open Discussion
15.30 - 16.00 pm	Coffee Break & Prayer
16.00 – 17.00 pm	Session II: Building Information Modeling & Digital Fabrication
	Session Chair: <i>Dr. Wael A. Abdelhameed</i>
	Re:Thinking BIM in the Design Studio <i>Michael a. Ambrose, Kristen m. fry (USA)</i> <i>Email address: ambrosem@umd.edu & kfry@asg-architects.com</i>
	Genres of Communication Interfaces in BIM-Enabled Architectural Practice <i>Sherif Abdelmohsen (Egypt)</i> <i>Email: sherif.morad@gmail.com</i>
	Complexity and Mass Customization in Contemporary Architecture <i>Helen Morais, Neander Silva & Ecilamar Lima (Brazil)</i> <i>Email: helen.rachel@uol.com.br, neander.furtado@gmail.com, & ecilamar@unb.br</i>
	Hybridizing Digital Fabrication Techniques <i>Timothy L Hemsath (USA)</i> <i>Email: Themstath3@unl.edu</i>
17.00 – 17.15 pm	Open Discussion

Day 2: Wednesday 22 February, 2012

08:30-09:00 am	Registration
9.00 am -09.45	<p>Keynote II: Digital Architecture at a Crossroads- Transition From Simulation and Visualization Modeling to Information Modeling Lamine Mahdjoubi Professor of the Built Environment, University of the West of England, Bristol (UK) <i>Email: Lamine.mahdjoubi@uwe.ac.uk</i></p>
09.45- 10.00 am	Open discussion
10.00 - 11.00 am	<p>Voice of Experience II:</p> <p>Session Chair: Dr. Ashraf Soliman</p> <p>Omrانيا & Associates <i>Wael Suliman & Omar Hasawi</i> <i>Architects of Omrania & Associates (Bahrain)</i> <i>Email: alhaddad@omrania.com.bh</i></p> <p>Integration Between GIS and Multi-Criteria Analysis in Planning <i>Prof. Eng. Mohamed Saad Atia Abdalls</i> <i>Research Associate, Ryerson University, Toronto, Canada</i> <i>& Consultant, MOI, Bahrain</i> <i>Email: m_saad2000@hotmail.com</i></p>
11.00 - 11.15 am	Open Discussion
11.15 - 11.30 am	Coffee Break
11.30 - 12.30 pm	<p>Session III: Design Education</p> <p>Session Chair: Professor Dr Abd Al Salam Al Sudairi</p> <p>The Possible Role of CAAD Systems in Initiating Innovation in the Design Studio <i>Bhzad Sidawi (KSA)</i> <i>Email: Bsidawi@ud.edu.sa</i></p> <p>Grammatically Thinking <i>Mohamed Ibrahim, Alan Bridges, Scott Chase, Samir Bayoumi, Dina Taha(Egypt, UK, KSA)</i> <i>Email: mohsobhy77@gmail.com, a.h.bridges@strath.ac.uk, and scha@create.aau.dk</i></p> <p>A Trans-disciplinary Program for Biomimetic Computing and Architectural Design <i>Sebastian Von Mammen, Joshua M. Taron (Canada)</i> <i>Email: basti@vonmammen.org & jmtaron@ucalgary.ca</i></p>

	Information Technology Utilization in Architectural Engineering <i>Ouafa Saighi and Mohamed Salah Zerouala (Algeria)</i> <i>Email: ouafasaighi@yahoo.fr & zerouala54@yahoo.com</i>
12.30 – 12.45	Open Discussion
12.45 am -13.30	Digital to Physical and/or Physical to Digital Feedback and Discussion with the conference participants and the students & professionals of the First KU Winter Practicum for Architecture & Design
13.30 - 14.30	Lunch & Prayer
14.30- 15.30	Session IV: Simulation and Visualization Session Chair: Prof. Lamine Mahdjoubi The Influence of Albedo on the Urban Microclimatic Street Canyon <i>Fatiha Bourbia, Yasmina Bouchahm & Warda Mansouri (Algeria)</i> <i>Email: someg1@hotmail.com, ybouchahm2@gmail.com, and wmansouri_2006@yahoo.fr</i> An Ontology-based Template of User-actor to Support Agent-based Simulation in Built Environments <i> Davide Simeone, Antonio Fioravanti (Italy)</i> <i>Email: davide.simeone@uniroma1.it, & antonio.fioravanti@uniroma1.it</i> Sense of Place in Virtual Heritage Environment: A review <i>Izham Ghani, Ahmad Rafi, Peter Woods & Abdul Ghani Salleh (Malaysia)</i> <i>Email: izham025@perak.uitm.edu.my, ahmadrafi@aswara.edu.my, pwoods@mmu.edu.my, & sghani@usm.my</i> Three Dimensional Reconstitution of an Old Town From Historical Documents: Case of the Medina of Jijel in Algeria <i>Mustapha Blibli, Ammar Bouchair & Faouzi Hannouf (Algeria)</i> <i>Email: musblibli@gmail.com, abouchair@gmail.com, faouzi.hannouf@gmail.com</i>
15.30- 15.45	Open discussion
15.45 - 16.15	Coffee Break & Prayer
16.15 – 17.00	Session V: Computation in Urban Environments Session Chair: Dr. Sherif El Wageeh Numerical simulation of effect of urban geometry layouts on wind and natural ventilation under Mediterranean climate <i>Bouchahm Yasmina, Fatiha Bourbia & Bouketta Samira (Algeria)</i> <i>Email: ybouchahm2@gmail.com, sb.archit@yahoo.fr, & sb.archit@yahoo.fr</i>

	<p>Responsive Prototypes: Urban Machines as a Framework for the Digital City <i>M. Del Signore (USA)</i> <i>Email: mdelsign@tulane.edu</i></p>
	<p>Resilient Rules <i>Ahmad Borham, Lobna Sherif & Osama Tolba (Egypt)</i> <i>Email: vaborhamz@gmail.com</i></p>
17.00 - 17.15 pm	Open Discussion
17.30 - 19.30 pm	Cultural Activity: Visit the Bahrain National Museum

Day 3: Thursday 23 February, 2012

08:30 - 09:00 am	Registration
09.00 – 09:45 am	Session VI: Smart Environments, Sustainability & Management
	Session Chair: Dr. Ahmed El-Seragy
	<p>Architectural Sociability as a Strategy to Drive Technology Integration into Architectural Structures and Smart Environments <i>STEVEN W. OCHS (USA)</i> <i>Email: Steve@bitlabseattle.com</i></p>
	<p>Sustainable Design and Construction <i>Abeer Samy Yousef Mohamed (Egypt & KSA)</i> <i>Email: drabeersamy@yahoo.com</i></p>
	<p>Information System to Improve the Building Production Management <i>Dalil Hamani (France)</i> <i>Email: dhamani@paris-lavillette.archi.fr, & Jean-Michel.Olive@univ.u-3mrs.fr</i></p>
09.45 – 10.00 am	Open Discussion
10.00 -11.15 am	Design Jury: The Competition of The First KU Winter Practicum for Architecture & Design
11.15 - 11.30 am	Coffee Break
11.30 - 13.15	Voice of Experience III:
	Session Chair: Prof. Mary Lou Maher
	<p>D2M Solutions Ltd</p> <p>3D printing in the AEC Sector <i>Alexander Papantoniou, Managing Director, D2M Solutions FZE. (British)</i> <i>Email: alex@d2m-solutions.com.</i></p>

	<p>General overview of 3d scanning technologies <i>George Koskinas, Technical Director, D2M Solutions FZE. (Greek)</i> <i>Email: gkoskinas@d2m-solutions.com</i></p> <p>Live demonstration of long/med range scanning for architecture <i>George Koskinas, Technical Director, D2M Solutions FZE. & George Koskinas, Technical Director, D2M Solutions FZE. (Greek)</i> <i>Email: gkoskinas@d2m-solutions.com</i></p>
13.15 - 13.30 pm	Open Discussion
13.30 - 14.30 pm	Lunch & Prayer
14.30 -15.30 pm	Closing Session & Awards and Certificates for winning Designs of The First KU Winter Practicum for Architecture & Design
15.30 -17.30 pm	Exhibition: Output of The KU Winter Practicum for Architecture and Design
18.30 - 21.00	Social Activity: Arabian Evening (حفل سمر) & Dinner



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