
TAREK H. MOKHTAR, PH.D.

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Chairman of Architectural
Engineering Department

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Specialties

Founder and Coordinator of the iDNA Research Group, the intelligent Design and Art Research Group, Alfaisal University, KSA
Executive Editor of the Journal of Architectural Engineering Technology (JAET)
Author of forthcoming book on Monuments :
How Robotics Will Change the Way We Design Monuments: Monumental-IT
(Edwin Mellen Press, 2013)
Intelligent Environments (Architectural Robotics)
Computation in Architecture
Theory of Architecture and Technology

Teaching Experience

- *Chairman of Architectural Engineering Department, College of Engineering, Alfaisal University; Riyadh, KSA — Fall 2014-Present*
- *Assistant Professor, Alfaisal University; Riyadh, KSA — Spring 2013-Present*
- *Assistant Professor, DAU; Riyadh, KSA — Fall 2011- Fall 2012*
- *Instructor, Clemson University; Clemson, USA — Spring 2009 - Spring 2011*
- *Assistant Professor (On Leave), Senior Teaching Assistant (2006-2008) & Teaching Assistant (2000-2006); ASUFEDA: Ain Shams University - Faculty of Engineering, Department of Architecture; Cairo, Egypt — Fall 2000 - Spring 2008*
- *Senior Teaching Assistant (2006-2008) and Teaching Assistant (2002-2006); Modern Academy for Technology and Information (MTI) - School of Architecture; Maadi, Egypt — Fall 2002 - Spring 2008*

Education

- **Ph.D. in Planning, Design, and the Built Environment**,
Concentration area: Technology, Materials + Construction Processes,
Research Stream 7.0: Intelligent Environments (Fall 2008 - August 2011)
Clemson University, Clemson, South Carolina, USA
Dissertation Title: Monumental-IT: A "Robotic-Wiki" Monument for Embodied Interaction in the Information World
- **Master of Science in Architecture** (May 2006)
ASUFEDA, ASU, Cairo, EG
Research Area: The New Scenario of Aesthetics: Philosophy & Meaning of Beauty in Millennium Architecture
- **Bachelor of Science in Architecture**, ASU, FEDA, CA, EG (May 2000)
Minor: Architecture Engineering (August 2000)

Funding Records

Research Grants

I assisted in preparing three NSF proposal submissions:

- *Green, Keith Evan; Walker, Ian D.; Sashton, Susanna; Burns, James; Bartely, Abel: "Monumental-IT" a Digital-Physical Monument for the Information World, National Science Foundation (-----), \$513,845 (request resubmission)*
- *Green, Keith Evan; Walker, Ian D.; Sashton, Susanna; Burns, James; Bartely, Abel: "Monumental-IT" a Digital-Physical Monument for the Information World, National Science Foundation (Creative-IT), \$298,653 (request resubmission)*
- *Walker, Ian D.; Brooks, Johnell O.; Green, Keith Evan; Logan, William C.; CDI-Type II: comforTABLE: an Intelligent Support Environment for Aging in Place, National Science Foundation (OIA - CDI TYPE II), \$1,610,326 (request resubmission)*

Research Projects

Architectural Robotics - Clemson University (for more details- Please check my website)

- *M.IT (PhD Research Project), Monumental-IT: A “Robotic-Wiki” Monument for Embodied Interaction in the Informational World*
- *We.Bot : Weather Monument (Tarek Mokhtar and Akshay Apte)*
- *ET: Emotional Together (Tarek Mokhtar and Paul Yanik)*
- *YOU: Interactive Prosthetic Leaf (Tarek Mokhtar and Apoorva Kapadia)*
- *iToi: Interactive Toilet (Tarek Mokhtar and Ivan Siles)*

Professional Affiliations

- *The Institute for Intelligent Materials, Systems and Environments (iMSE), since 2008.*
- *The Institute of Electrical and Electronics Engineers (IEEE), since 2009.*
- *Association for Computing Machinery (ACM): ACM Special Interest Group on Computer-Human Interaction (SIGCHI), since 2009.*

Publications

- *A. Kapadia, I.D. Walker, K.E. Green, J. Manganelli, H. Houayek, A.M. James, V. Kanuri, T. Mokhtar, I. Siles, and P. Yanik, "Rethinking the Machines in Which We Live: A Multidisciplinary Course in Architectural Robotics", Submission Number:12-0092, Accepted to appear in the IEEE Robotics and Automation Magazine. Digital Object Identifier 10.1109/MRA.2013.2287456, Date of publication: 24 June 2014*
- *Mokhtar, Tarek; Green, Keith; Walker, Ian. Giving Form to the Voices of Lay-Citizens: Monumental-IT, an Intelligent, Robotic, Civic Monument," HCI 2013, Las Vegas, USA. (Paper-Poster)*
- *Mokhtar, Tarek. Learning from Interaction, Editorial in the Journal of Architectural Engineering Technology, 2012, Volume 1, Issue 1, 1000e10.*
- *Mokhtar, Tarek; Green, Keith; Walker, Ian. Monumental-IT: A Robotic Monument in an Open Society - The Dream of a Robotic Monument is Near!," Prix Ars Electronica 2012 [the next idea], Linz Austria. (review process)*
- *Mokhtar, Tarek; Green, Keith; Walker, Ian. Designing Monumental-IT, an Interactive System Giving Form to the Voices of Lay-Citizens," International Journal of Architectural Computing, Special Issue: Architectural Robotics: catalyzing new design opportunities, August / September 2012. (review process)*
- *Mokhtar, Tarek; Green, Keith; Walker, Ian; Threatt, Anthony; Maurali, Vidya; Apte, Akshay; and Mohan, Sumod. Embedding Robotics in Civic Monuments for an Information World, CHI2010, Georgia, USA. (2010)*
- *Kapadia, Apoorva; Ian Walker, Keith Evan Green, Joe Manganelli, Henrique Houayek, Adam M. James, Venkata Kanuri, Tarek Mokhtar, Ivan Siles, and Paul Yanik. "Architectural Robotics": An Interdisciplinary Course Rethinking the Machines We Live In," for ICRA 2010. (2010)*
- *Mokhtar, Tarek. "Monumental-IT" Position Paper: Informing the Design of the Future Urban Landscape, ACM Creativity and Cognition 2009 Workshop. (2009)*
- *Green, Keith; Walker, Ian; Brooks, Johnell; Mokhtar, Tarek; Smolentzov, Linnea. " comforTABLE: A Robotic Environment for Aging in Place", in HRI2009, San Diego, CA. (2009)*