

## Keynote speakers

### *Learning: Create a Cloud-based Learning Environment*

Minjuan Wang

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The presentation will review the evolution of learning, from classroom through E- and mobile, to the recently emergent intelligent cloud learning. It will showcase the achievements in each area, including a well-recognized instructional design model (Cybergogy for Engaged Learning) and present some recent innovations in models of learning associated with mobile and intelligent cloud learning.

Dr. Minjuan Wang is an Associate Professor of Educational Technology at San Diego State University (SDSU), an adjunct faculty of Shanghai Jiaotong University, a fellow to the Etisalat BT Innovation Centre, and a member of the Creative Science Foundation. Her research specialties focus on mobile learning, cloud learning, the sociocultural aspects of online learning, and technological interventions in language and literacy education. Currently, she conducts research on teaching and learning in international multicultural settings and the use of mobile and cloud learning in formal and informal settings.

A winner of several research awards, Minjuan has about 40 peer-reviewed articles published in premier journals, such as Educational Technology Research and Development, IEEE Transactions on Education, Computers and Education, British Journal of Educational Technology, and Educational Technology and Society. She has also published 15 book chapters on Best practices in teaching online or hybrid courses, Cross-cultural issues in online learning, Cybergogy for interactive learning online, and assessment of mobile learning in large classrooms. The Cybergogy for Engaged Learning Model she created has been recognized as an instructional design model (<http://edutechwiki.unige.ch/en/Cybergogy>). In addition, she is an author of two books, A Critical Analysis of the U.S. Media (best-seller, 1997), and Walking in this Beautiful World ([http://blog.sina.com.cn/s/blog\\_49edadcd0102dv6v.html](http://blog.sina.com.cn/s/blog_49edadcd0102dv6v.html), 2012).

Minjuan serves on the editorial boards for three top-tier journals: Open Education Research, International Journal on E-Learning (IJEL), and the Open Education Journal. And she was an invited speaker to eight large international conferences.



Minjuan Wang

## ***Probabilistic Graphical Models and their Applications in Intelligent Environments***

Luis Enrique Sucar

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Dr. Luis Enrique Sucar is Director of Research and Senior Research Scientist at Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE).

He holds a PhD in Computer Science from Imperial College (London England), a MSc in Electric Engineering from Stanford University (CA, USA) and a BSc in Electronics and Communications Engineering from Monterrey Tech (Monterrey, México). He has been visiting professor at Imperial College (London), University of British Columbia (Canada) and INRIA (France). In addition, he has been researcher at the Electrical Research Institute, Monterrey Tech and INAOE.

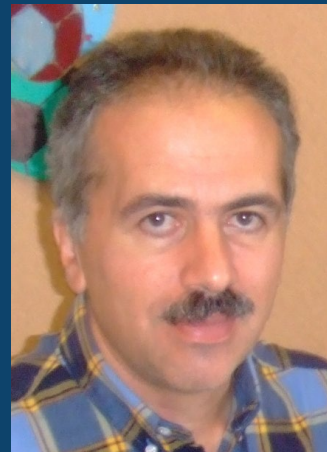
Dr. Sucar is member of the Mexican National Research System (SNI Level III), and member of the Mexican Academy of Science. He has been President of the Mexican Society of Artificial Intelligence, and a member of the Advisory Board of IJCAI. He is a Senior Member of IEEE and associate editor of the Journals *Computacion y Sistemas*, and *Revista Iberoamericana de Inteligencia Artificial*. He has more than 150 publications in journals and conferences, and has directed 16 PhD and 42 MSc thesis.

His research is focused on artificial intelligence, mainly in the development of graphical probabilistic models and their applications to computer vision, mobile robotics, intelligent tutors and biomedicine. Dr. Sucar has been a pioneer in Mexico and the world in the development of Bayesian Networks, standing out his contribution in high level modelling based on Bayesian Networks, and in the development of new models and techniques for temporal representation, information validation, reliability analysis, gesture recognition, and student modelling in tutor systems. Recently he has developed a support system for the rehabilitation of people who have suffered from cerebral embolism, which is under clinical testing.

### ***Intelligent Liveable Cities***

Derek Clements-Croome

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**Luis Enrique Sucar**

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Emeritus Professor Derek Clements-Croome is founder of the MSc Intelligent Buildings Course at the University of Reading and has carried out many research projects funded by Government. He is experienced in sustainable buildings research and education nationally and internationally and has sat on research panels for EPSRC and ESRC.

He chairs the CIBSE Natural Ventilation and Intelligent Buildings Groups and sits on the Schools Group. He is Editor for the Intelligent Buildings International Journal published by Taylor and Francis. He has written several papers and books.

His books include Creating the Productive Workplace 2<sup>nd</sup> edition 2006 and Intelligent Buildings 2004( also in Chinese).

He was a principal contributor to the BCO Report on The Challenges for the Office Sector Over the Next Decade and Beyond led by Volterra issued at the BCO Conference in Geneva in May 2011. He serves on the BCO Research Committee and Technical Affairs Committee besides having been on the Board. He sits on the Learning Framework Task Group for the UK Green Building Council.

His international work is mainly in China and Finland where he works in cooperation with the Ministry of Construction in Beijing and has also been an adviser on intelligent buildings for two years on the Technology Strategy Board for the Government in Taiwan. He has been a visiting professor at several universities and at present is a Visiting Professor at Xian University of Architecture and Engineering, Hong Kong Polytechnic University and at London South Bank University.

He works closely with industry and at present is a consultant with Hilson Moran in London on master planning for eco -cities.



## *New Silicon Architectures for Embedded IE Control Networking*

### Keith Prettyjohns

As IE networks become ubiquitous, they inevitably become involved in more mission-critical applications. These applications, for example in industrial automation and building control, have real-time and high-availability requirements. This presentation describes one approach to address these concerns.

Dr Keith Prettyjohns is CEO and Chairman of Innovasic, a fabless semiconductor manufacturer located in Albuquerque, New Mexico, USA. Innovasic is focused on developing innovative semiconductor and software solutions for time-critical industrial ethernet applications.

Dr Prettyjohns has a B.Eng and PhD in Electrical Engineering from the University of Sheffield, UK. Initially working as a researcher and lecturer at the University of Arizona Optical Sciences Center, he then worked for several start-up companies in the fields of optical instrumentation, image sensors and semiconductors. Prior to joining Innovasic, he was leading a start-up wireless semiconductor company that ultimately was acquired by Intersil.



Keith Prettyjohns

**Others being confirmed...**

