January 2013 Monthly Update

We encourage you to share this newsletter with your students and engineering faculty. Subscribe online to receive directly.

Interdisciplinary Engineering Design Education Conference 2013

The Interdisciplinary Engineering Design Education Conference (IEDEC) technical program featuring keynote and invited talks by industry and academic experts and over 40 technical presentations covering critical issues related to excellence in interdisciplinary engineering education is now available, and registration for the event is open. IEDC will be held on March 4-5, 2013.

The Education Leadership Award and Quality Educator Award nominations are also open. These awards honor and pay tribute to organizations and educators who exemplify excellence in interdisciplinary engineering education, will be announced at IEDC. The nomination deadline is February 20, 2013.

The following keynotes and invited speakers will be presenting at this year’s event:

- **Resilient Cyber-Physical Systems (CPS): From Big Data to Action Webs**
  S. Shankar Sastry, Dean of the College of Engineering and Roy W. Carlson Professor
  University of California, Berkeley

- **Connecting Through the Cloud**
  Thomas Tremblay, Global Design, Lifecycle and Simulation Industry Manager
  Autodesk

- **Creature Arts Creation: Teaching How to Incorporate Imagination with Anatomy, Astrobiology, Modern Materials and Engineering on the Web**
  Shannon Gans, Co-Founder and CEO
  New Deal Studios

- **Engineering Sound: How the John Lennon Educational Bus is Bringing the Science, Engineering and Creative Skills Together for the Next Generation of Music**
  Brian Rothschild, Executive Director
  John Lennon Educational Tour Bus

- **SMILE: Stanford Mobile Inquiry-based Learning Environment**
  Paul Kim, Chief Technology Officer
  Stanford Graduate School of Education

- **You Can’t Do That in a Virtual Classroom!**
  Peter Ryce, Product Evangelist
  Adobe

- **Wireless Health: Remaking of Medicine by Pervasive Technologies**
  Mehran Mehregany, Professor of Engineering, Innovation Director
  Case School of Engineering, San Diego

Visit the IEDC website for more information, to register and submit your educator award nominations today!

Curriculum

The following new and updated courses are now available. Visit Members Only with your SolvNet ID and password to download.

- **Elements of Software Construction - New!**
- **User Interface Design - New!**
- **Programming C++ - New!**
- **Equations of Mathematical Physics - New!**
- **Low Power Methodology Manual Labs Based on 32/28nm - New!**
- **Theory of Algorithms - Updated!**
- **VLSI Verification Algorithms - Updated!**
- **Technical Writing - Updated!**

Articles

- **Test Generation for Clock-Domain Crossing Faults in Integrated Circuits**
  Duke University: Naghmeh Karimi, Krishnendu, Pallav Gupta and Srinivas Patil

- **Asymmetric Large Size Multiplication Using Embedded Blocks with Efficient Compression Technique in FPGAs**
  Royal Military College of Canada: Various Authors

- **Proactive NBTI Mitigation for Busy Functional Units in Out-of-Order Microprocessors**
  University of Pittsburgh: Lin Li, You Tao Zhang, Jian Yang and Jinhua Zhao

Upcoming Events

- **IEEE Latin American Symposium on Circuits and Systems (LASCAS 2013)**
  February 27 - March 1, 2013
  Cusco, Peru

- **IEEE Design, Automation & Test in Europe (DATE 2013)**
  March 18 - 20, 2013
  Grenoble, France

- **IEEE International Parallel and Distributed Processing Symposium (IPDPS 2013)**
  May 20 - 24, 2013
  Boston, MA

- **Virtual Prototyping of Parallel and Distributed Processing Symposium (ViPES 2013)**
  May 24, 2013
  Boston, MA

Call for Papers

- **IEEE Computer Society Annual Symposium on VLSI (ISVLSI 2013)**
  Due By: February 8, 2013

- **Iberoamericano Symposium on Education, Cybernetics and Informatics (SIECI 2013)**
  Due By: February 17, 2013

- **International Conference on Semiconductor Micro- and Nanoelectronics (ICSMN 2013)**
  Due By: April 8, 2013

- **Asia Symposium on Quality Electronic Design (ASQED 2013)**
  Due By: April 23, 2013

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