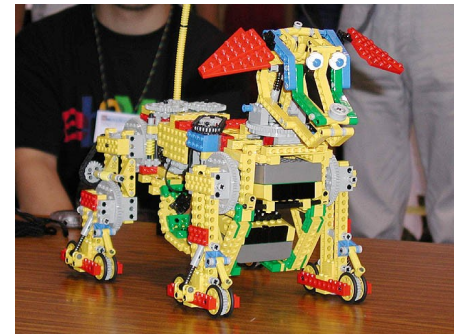


# Workshop on Embedded Systems Education (WESE)

Taipei  
2011



# Embedded System Design

- Difficult, requires skills from various areas
- How to teach this area?

# This year ...

- All contributions go into ACM DL, directly
- Focus on programmes in the morning, on courses in the afternoon

# Programme

08:30 Opening

08:40 Keynote: Tien-Fu Chen (National Chiao Tung University Chair, 4C Electronics (4C) Education Consortium, Intelligent Electronics (IE) Education Program, Ministry of Education, Taiwan): Embedded System Education in Taiwan: Past and Future

09:30 Break

09:30 Bastian Haetzer, Gert Schley, Rauf Salimi Khaligh, Martin Radetzki (Univ. Stuttgart, Germany): Practical Embedded Systems Engineering Syllabus for Graduate Students with Multidisciplinary Backgrounds

10:30 Peter Marwedel, Michael Engel (TU Dortmund, Germany): Embedded System Design 2.0: Rationale Behind a Textbook Revision

11:00 Steffen Jaschke, Sigrid Schubert, André Schäfer, Rainer Brück (Univ. Siegen, Germany), Bruno Kleinert, Harald Schmidt, Dietmar Fey (Univ. Erlangen-Nürnberg, Germany): Competence Research: Teaching Embedded Micro/Nano Systems

11:30 Discussion: How should embedded system curricula be updated to reflect Systems Engineering?

12:00 Lunch

# Programme

- 13:00 Pangfeng Liu (NTU, Taipei, Taiwan), Greg C. Lee (NTNU, Taipei, Taiwan), Jenq-Kuen Lee and Cheng-Yen Lin (NTHU, Hsinchu, Taiwan)  
Innovative System and Application Curriculum on Multicore Systems
- 13:30 Jogesh Muppala (Hong Kong University of Science and Technology, Hong Kong): Teaching Embedded Software Concepts Using Android
- 14:00 Shuvra S. Bhattacharyya, William Plishker, Chung-Ching Shen, Ayush Gupta (Univ. of Maryland, USA): Teaching Cross-Platform Design and Testing Methods for Embedded Systems using DICE
- 14:30 Discussion: How to teach the design of embedded multi-core software?
- 15:00 Akash Kumar (NUS, Singapore), Shakith Fernando (TU Eindhoven, Netherlands), Manmohan Manoharan (NUS, Singapore): Bringing Soccer to the Field of Real-Time Embedded Systems Education
- 15:30 Break
- 16:00 Discussion: What have we learned today?
- 16:30 Close

# Support

- The support by the ArtistDesign network of excellence is acknowledged.
- Information available via <http://www.artist-embedded.org/artist/-WESE-2011.html>
- Slides can be stored on the web site
- Requires attendees to be listed in ArtistDesign review

# Programme Committee

- **Alex Dean**, North Carolina State University, US
- **Yann-Hang Lee**, Arizona State University, USA
- **Sin Ming Loo**, Boise State University, USA
- **Jogesh K. Muppala**, Hong Kong U. of Science and Technology, HK
- **Mariagiovanna Sami**, ALARI, Lugano, CH
- **Chi-Sheng (Daniel) Shih**, National Taiwan U., TW
- **Stewart Tansley**, Microsoft Corporation, USA
- **Martin Törngren**, Royal Institute of Technology, SE
- **Shiao-Li Tsao**, National Chiao Tung University, TW
- **Frank Vahid**, UC Riverside, USA
- **Marilyn Wolf**, Georgia Tech, USA

# Organizers

- **Peter Marwedel**, TU Dortmund, Germany
- **Jeff Jackson**,  
The University of Alabama, USA
- **Kenneth Ricks**,  
The University of Alabama, USA