2010 International Workshop on Emerging Circuits and Systems

Overview of Program and Post-Workshop Events

August 4th, 2010, Conference registration and Hotel Check-in, 安大磐苑宾馆 (Anhui University Guest Hotel)

August 5th-6th, 2010, Technical Sessions: August 5th and the morning of August 6th, 安大磐苑宾馆 (Anhui University Guest Hotel)

August 6th-8th, Discussion in Leisure and Touring Activities: leave Hefei around noon of August 6th, and return to Hefei or Shanghai around noon of August 8th. 屯溪四星酒店 (TangXi Hotel) for evening of August 6th, and黄山风景区排云楼（四星）宾馆 (Hotel) for evening of August 7th

Leave for Anhui or Shanghai, after lunch on August 8th.
Technical Program

August 5th, 2010

Breakfast  7:00am-8:00am
Open Session  8:30am – 9:00am
Welcome Address, Prof. Chun-Jing Wang, Vice President of Anhui University.
“Introduction to the Technical Program,” TPC Chair, Prof. Lei He, UCLA, USA.

Session 1   9:00am -- 10:30am
New Trends of Technology Development
Session Chair: Lei He, Technical Program Chair

“Nonvolatile nano-electronics: devices and architectures,” Prof. Kang Wang, UCLA, and Director of FENA/WIN research centers.

“Facing the Semiconductor Technology and Package Reliability Challenges,” Dr. ShiJie Wen, Distinguished Engineer, Cisco, USA.

Coffee Break  10:30am-11:00am

Session 2   Testing and Verification  11:00am-12:30am
Session Chair: Sheldon Tan, Technical Program Co-Chair


"FPGA-Accelerated Modeling and Verification of Multiple-Antenna Wireless Communication Systems," Prof. Bruce Cockburn, University of Alberta, Canada.

“How I Built a Zero Carbon Footprint Home,” Dr. Chandu Visweswariah, Distinguished Engineer, IBM, USA.

Lunch Speech   1:00pm – 2:00pm

Session 3   Emerging Green and Cloud Applications  2:00am - 3:30am
Session Chair: Hao Yu, Nanyang Technological University, Singapore

“Battery Management for Electrical Vehicle and Smart Grid,” Prof. Lei He, UCLA, USA

“Engaging FPGA research in Cloud Computing Era,” Prof. Yu Hu, Univ. of Alberta, Canada
“A New Research Center on Cyber Physical Systems,” Prof. 邬雪城, Huazhong Univ. of Science and Technology, China.

Coffee Break 3:30pm to 4:00pm

Session 4 Modeling and Optimization 4:00pm-5:30pm
Session Chair: Jeffrey Fan, Florida International University, USA

"A Discussion on the Possibility of Sensitivity-Driven Interactive Device Sizing for Analog IC Designers," Prof. Guoyong Shi, Shanghai Jiatong Univ.

“Composable thermal modeling for multicore microprocessor design,” Prof. Sheldon Tan, UC Riverside, USA.

“Design Exploration at Extreme Scale beyond 60GHz and 40nm,” Prof. Hao Yu, Nanyang Technological Univ., Singapore.

Group Picture 5:30pm

Dinner 6:30pm
Technical Program

August 6th, 2010

Breakfast 7:00am-8:00am

Session 5 Embedded Systems and Modeling 8:00am - 9:30am
Session Chair: Gengsheng Chen, Fudan Univ., China

“The research work we are doing and interested in”, Prof. Yuehua Dai, Anhui University, China.

“H.264 based architecture of digital surveillance network in space exploration,” Prof. Jeffrey Fan, Florida International Univ., USA.

“Model Order Reduction of Nonlinear Circuits: Towards Higher Accuracy and Higher Efficiency”, Prof. Fan Yang, Fudan University, China.

Coffee Break 9:30am - 10:00am

Session 6 Multimedia and RF Systems 10:00am - 11:00am
Session Chair: Yu Hu, University of Alberta, Canada

“Real-Time Scheduling of Multimedia Tasks on Multicore Processors,” Prof. Tei-Wei Kuo, National Taiwan University, Taiwan.

“ESD+RFIC Co-Design,” Prof. Albert Wang, UC Riverside, USA.

11:00am Closing Remarks, Technical Program Chair for 2011, Prof. Sheldon Tan

Lunch 11:00am-12:00am

Other participating guests:

Jun-Ning Chen, Professor, Anhui University, China
Pushan Tang, Professor, Fudan University, China
Tingao Tang, Professor, Fudan University, China
Xian-Long Hong, Professor, Tsinghua University, China
Yici Cai, Professor, Tsinghua University, China
Cao Xu, Professor, Anhui University, China
Huazhong Yang, Professor, Tsinghua University, China
Xin-Ping Qu, Professor, Fudan University, China
Xuecheng Zou, Professor, HUST, China
Xiangqing He, Professor, Tsinghua University, China
Jian Meng, Associate Professor, Anhui University, China
Qiang Zhou, Associate Professor, Tsinghua University, China
Jai Zhou, Associate Professor, Fudan University
Huihu Yu, Associate Professor, Fudan University, China
Jie Han, Assistant Professor, University of Alberta, Canada