First International Workshop on Reconfigurable Computing(RCW08)

http://www.ewh.ieee.org/conf/hprcw

Sponsored by the IEEE Computer Society TCPP Subcommittee on Reconfigurable Systems and Architecture

December 17, 2008, Bangalore, India

Held in conjunction with 15 th annual IEEE International Conference on High Performance Computing (http://www.hipc.org)

Advance Program

8.30-8.40 AM   Welcome and Introduction

Tirumale Ramesh, The Boeing Company, RC Workshop Chair

8.40-9.10 AM

Redefining Hardware Specializations at Runtime on ASIC/SoC Platforms for Application Acceleration

Invited Talk By Prof SK Nandy, Indian Institute of Science, India

9.10-9.35 AM

FPGA based reconfigurable digital signal processors for ISRO's spaceborne microwave radars

Shalini Gangele, Ramesh Gameti, R. Senthil Kumar, B. Saravanakumar, Ritesh Kumar Sharma, J.G. Vachhani and N.M. Desai
Space Applications Center, ISRO, India

9.35-10.00 AM

Power optimal network-on chip interconnect design

Vikas. G, Joy Kuri and Kuruvilla Varghese, Indian Institute of Science, India

10.00-10.25 AM

Balancing coarse-grained pipelined architectures using multiple clock domains on platform FPGA

Sirisha Nalmela, Govindarajulu Regeti, IIT, Hyderabad, India
Chidamber Kulkarni, Xilinx India

10.25-11 AM   Coffee Break

11.00-11.30 AM

Ubiquitous Reconfigurable Computing for Net-Enabled Capabilities in Commercial and Military Systems: Technology, Social, and Economic Perspectives

Invited Talk By Tirumale Ramesh and Ken Cureton, The Boeing Company, USA

11.30-11.55 AM

Data Acquisition, Formatter and Control Unit for Megha Trophies Project

Rahul Dhingani, Madhav Das, B.S. Raman, R. Neelakantan and V.R. Gujraty, Space Applications Center, ISRO, India

11.55 AM-12.20 PM

FPGA implementation of run-time partial reconfigurable architectures for voice enhancement in data networks

J.K. Jawahar and V. Vaidehi, Anna University, Chennai, India

12.20-12.45 PM

Integer sequence window based reconfigurable FIR filters

Arul Rajan and H.S. Jamadagni, Indian Institute of Science, India
Ashok Rao, JSS College of Arts, Commerce and Science, Mysore, India

12.45-1 PM   Short Technology & Applications Trend Discussions and Closing Remarks

Moderator, Tirumale Ramesh, The Boeing Company, RC Workshop Chair