

ADVANCE PROGRAM

Sunday June 22: Welcome

18.00 Registration
19.00 Welcome reception

Monday June 23

8.00 Registration

SESSION 1: KEYNOTE

8.55 **Heinrich Meyr, Chairman MPSoC'08**
Opening remarks
9.00 **Liang-Gee Chen, National Taiwan University, Taiwan**
Reconfigurable and Scalable Stream Processor for Multimedia Application
10.00 Break

SESSION 2: MINI-KEYNOTES

10.30 **Paolo Ienne, EPFL, Switzerland**
Analytical Models of Communication
10.45 **Youn-Long Lin, National Tsing Hua University, Taiwan**
Memory Access Analysis and Optimization for Ultra High Definition Video Decoding
11.00 **Vijaykrishnan Narayanan, Pennsylvania State University, USA**
Network on Chips for 3D Chips
11.15 **Marcello Coppola, STMicroelectronics, France**
Spidergon: STNoC: The Communication Infrastructure for Multiprocessor Architectures
11.30 **Pier Stanislao Paolucci, ATMEL & INFN, Italy**
Four Levels of Parallelism to be Managed in the DIOPSIS based SHAPES Multi-Tiled Architecture
11.45 Panel discussion with the lecturers
12.15 Lunch

SESSION 3: IN-DEPTH TECHNICAL PRESENTATIONS

13.45 **Jörg Henkel, University of Karlsruhe, Germany**
Adaptive Embedded Processing with RISPP
14.15 **Takashi Miyamori, Toshiba, Japan**
Venezia: a Scalable Multicore Subsystem for Multimedia Applications
14.45 **Jason Parker, Symbian Ltd., UK**
The opportunity and challenges of SMP in the mobile phone
15.15 Break
15.45 **René van den Berg, NXP, Netherlands**
Predictable and Composable Multiprocessor Systems for Car-Entertainment: Breaking Cyclic Dependencies. Part 1: business view

16.15 **Marco Bekooij, NXP, Netherlands**
Predictable and Composable Multiprocessor Systems for Car-Entertainment: Breaking Cyclic Dependencies. Part 2: research view

16.45 Panel discussion with the lecturers
19.00 Dinner

Tuesday June 24

SESSION 4: KEYNOTE

8.30 **Tim Kogel, CoWare, Germany**
Using the new TLM-2.0 standard for the Creation of Virtual Platforms for ESL Design
9.30 Break

SESSION 5: MINI-KEYNOTES

9.45 **Soonhoi Ha, Seoul National University, Korea**
Embedded Software Development for MPSoC: Preliminary HOPES Experience
10.00 **Masaharu Imai, Osaka University, Japan**
Architecture Level Power Reduction Method for Configurable Processor Generation
10.15 **Hironori Kasahara, Waseda University, Japan**
Compiler and API for Low Power High Performance Multicores
10.30 **Joachim Kunkel, Synopsys, USA**
MPSoC IP Integration and Interoperability Challenges
10.45 **Jan Madsen, Technical University of Denmark**
Adaptive Embedded Systems – Challenges of Run-Time Resource Management
11.00 Break

SESSION 6: IN-DEPTH TECHNICAL PRESENTATIONS

11.15 **Gerd Ascheid, RWTH Aachen University, Germany**
MPSoC Design Space Exploration Framework
11.45 **Katalin Popovici, Mathworks, France**
Software Design and Integration for Embedded Applications by Successive Refinement
12.15 **Rudy Lauwereins, IMEC, Belgium**
Will 3D Stacking of ICs Enable to Continue Moore's Momentum in the 21st Century?
12.45 Panel discussion with the lecturers
13.15 Lunch
14.15 Social Event (Aachen, Germany)
19.15 Dinner, Aachen, Germany

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Wednesday June 25

SESSION 7: KEYNOTE

- 8.30 Luca Benini, University of Bologna, Italy**
3D-MPSoCs: Architectural and Design Technology Outlook

SESSION 8: MINI-KEYNOTES

- 9.30 Omar Hammami, ENSTA, France**
Heterogeneous Embedded Systems Very Large Scale Design Space Exploration
- 9.45 Jari Nurmi, Tampere University of Technology, Finland**
Silicon Café: a Heterogeneous Multi-Processor Platform based on Coffee (RISC Core)
- 10.00 Atsuhiko Suga, Fujitsu Laboratories, Japan**
A-RPC based Heterogeneous Multicore Platform Suitable for an Embedded System
- 10.15 Break**
- 10.45 Thierry Collette, CEA LIST, France**
Key Technologies for Hundred-Core Architectures
- 11.00 Olivier Franza, Intel, USA**
Power Mitigation Techniques in complex MPSoCs
- 11.15 John Goodacre, ARM, UK**
The Effect and Technique of System Coherence in ARM Multicore Technology
- 11.30 Steven P. Levitan, University of Pittsburgh, USA**
Zooming out and Scaling up: from 1 to 1000 Cores
- 11.45 Kazutoshi Wakabayashi, NEC, Japan**
Practical Usage of C-based Design
- 12.00 Pieter van der Wolf, NXP, Netherlands**
Performance Contracts for Modular MPSoC Integration
- 12.15 Panel discussion with the lecturers**
- 12.45 Lunch**

SESSION 9: IN-DEPTH TECHNICAL PRESENTATIONS

- 14.15 David Atienza, LSI, EPFL, Switzerland**
New Exploration Frameworks for Temperature-Aware Design of MPSoCs
- 14.45 Stefan Heinen, RWTH Aachen University, Germany**
Challenges for SoC Integration of Multistandard-RF-Circuits

- 15.15 Christian Piguet, CSEM, Switzerland**

Design Methodologies for Heterogeneous Systems and Case Studies of MPSoC Chips

- 15.45 Break**

SESSION 10: MINI-KEYNOTES

- 16.15 Dominique Ragot, THALES, France**
MPSoC Architecture Low Power Optimisation under Linux
- 16.30 Lothar Thiele, ETH Zürich, Switzerland**
Closing the Loop: Exploration and Estimation
- 16.45 Steve Leibson, Tensilica, USA**
Green Computing: What does it mean for embedded silicon systems?
- 17.00 Yankin Tanurhan, ACTEL, USA**
Low Power Solutions in FPGA based Programmable Heterogeneous Multi-Processor Systems
- 17.15 Panel discussion with the lecturers**
- 19.00 Dinner**

Thursday June 26

SESSION 11: KEYNOTE

- 8.30 Wanda Gass, Texas Instruments, USA**
Gaining Focus: Developing a "Tops-Down" Approach to Multicore Processor Architectures
- 9.30 Break**

SESSION 12: MINI-KEYNOTES

- 10.00 Soo-Ik Chae, Seoul National University, Korea**
A RISC Cluster for a H.264 D1 Software Decoder
- 10.15 Ahmed Jerraya, CEA-LETI, MINATEC, France**
System Compilation for MPSoC based on NoC
- 10.30 Ulrich Ramacher, Infineon, Germany**
R&D for X-Gold SDRxx Baseband Processors
- 10.45 Norbert Wehn, University of Kaiserslautern, Germany**
An Outer Modem ASIP for Software Defined Radio
- 11.00 Rolf Ernst, Technical University, Braunschweig, Germany**
Load Level Modeling
- 11.15 Panel discussion with the lecturers**
- 12.00 Lunch**

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SESSION 13: IN-DEPTH TECHNICAL PRESENTATIONS

- 13.30 Kevin Smart, Synopsys, UK**
Virtually Solving Debug Challenges of the MPSoC Era
- 14.00 Tsuyoshi Isshiki, Tokyo Institute of Technology, Japan**
MAPS-TCT: MPSoC Application Parallelization and Architecture Exploration Framework
- 14.30 Achim Nohl, CoWare, Germany**
Debugging and Test Techniques for Parallel Software using Virtual Platforms
- 15.00 Break**

SESSION 14: MINI-KEYNOTES

- 15.30 Toshihiro Hattori, Renesas, Japan**
Multi-Domain System Support Environment for Multi-Core System
- 15.45 Gabriela Nicolescu, Ecole Polytechnique de Montréal, Canada**
Design Space Exploration for Applications Mapping on MPSoC Architectures
- 16.00 Frédéric Pétrot, TIMA - SLS, France**
Timing Estimation for Native Software Execution in MPSoC
- 16.15 Eric Verhulst, OpenLicenseSociety, Belgium**
Programming without Communication, the Key to Multi-Core and Distributed Programming
- 16.30 Panel discussion with the lecturers**
- 19.00 Dinner**

Friday June 27

SESSION 15: KEYNOTE

- 8.30 Gerhard Fettweis, TU Dresden, Germany**
Challenges and Solutions for Building Future MPSoCs for Cellular Communications
- 9.30 Break**

SESSION 16: IN-DEPTH TECHNICAL PRESENTATIONS

- 10.00 Michael Speth, Infineon, Germany**
Design and Verification Challenges for G/3.5G/4G Wireless Baseband MPSoCs
- 10.30 Rakefet Kol, Zoran Microelectronics, Israel**
Must Provide a Solution on a Chip – from concept to delivery
- 11.00 Jürgen Teich, University of Erlangen-Nuremberg, Germany**
Reconfigurability Issues of Future Massively Parallel SoCs
- 11.30 An-Yeu Wu, Industrial Technology Research Institute, Taiwan**
Overview of ITRI's Parallel Architecture Core (PAC) DSP Project
- 12.00 Panel discussion with the lecturers**
- 12.30 Lunch**

MPSOC'08 FORUM REGISTRATION FORM

For registration before May 11th, 2008, the fee amounts to 1200 EURO for regular attendees, 950 EURO for IEEE and EDAA members, and 750 EURO for students. It will cover the documentation, the lunch for five days, dinner for four days including the social dinner. 2 days registration before May 11th, 2008 amounts to 750 EURO.

Registration form and further information at: www.mpsoc-forum.org/registration.html

MPSOC'08 HOTEL RESERVATION

MPSoC'08 will be held on June 23-27, 2008 at Chateau St. Gerlach, Valkenburg, The Netherlands.

Chateau St. Gerlach

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It takes 30 minutes from Aachen (by car).

Room reservations should be made by May 31, 2008. Reservation condition after this date is subject to change. Further reservation information and accommodation: <http://www.mpsoc-forum.org/location.html>

* Please note that there is no bank or ATM in the hotel, although you can make a payment with a credit card.