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edaWorkshop11 - Program

On this website you find the program of this year's edaWorkshop separately expandable for each day. Included are schedule, titles of the presentations and the presenters. If further information like an abstract, a cv or (for participants) the slides are available, this is indicated by a link.

The whole program booklet is downloadable [here](#) ^[1] as PDF (600KB). Please contact us at [info@edacentrum \[dot\] de](mailto:info@edacentrum.de), if you would like us to send the printed program booklet to you by mail.

Tuesday, May 10, 2011

Keynote-Session, Moderator: E. Barke (edacentrum)

- 09:15 **Welcome**
A. Brüning (Silicon Saxony)
- More than Moore - Challenges and Opportunities for Europe**
- 09:30 M. Brillouet (CEA-Leti)
[Abstract and Curriculum Vitae](#) ^[2]
- Real-world Applications of Smart Environments in the Home**
- 10:00 B. de Groot (Philips)
[Abstract and Curriculum Vitae](#) ^[3]
[Download Presentation](#) ^[4]
- 10:30 Coffee Break

Technical Session: Healthcare, Moderator: P. Merkus (Philips)

- 11:00 **THOR: Striking Technologies for Power**
M. van Helvoort (Philips)
- CSI: Central Nervous System's Multi Modal Imaging**
- 11:35 R. Zafalon (STMicroelectronics Italy)
- MAS: Mobile Ambient Assisted Living**
- 12:00 O. Vermesan (SINTEF)
[Download Presentation](#) ^[5]
- 12:25 **Q&A**
- 12:30 Lunch

Technical Session: System Design Methodologies, Moderator: F. Petrot (TIMA)

- 14:00 **Multimedia Box to Home System**
D. Henoff (STMicroelectronics)

- 14:35 **Hardware Dependent Software Solutions for SoC Design**
E. de Kock (NXP)
- 15:00 **An Approach toward Accurately Timed TLM+ for Embedded System Models**
K. Lu, D. Müller-Gritschneider, W. Ecker, V. Esen, M. Velten, U. Schlichtmann (Infineon, TU München)
- 15:25 **Q&A**
- 15:30 Coffee Break

Technical Session: Multicore Architecture, Moderator: D. Rousset (ST-Ericsson)

- 16:00 **The CC-Numa TSAR Machine**
H.-N. Nguyen (Bull)
- 16:35 **P2012 in COBRA Project: Processing Array for Computing-intensive Applications**
F. Clermidy (CEA-Leti)
- 17:00 **COMCAS Project: Energy Efficient Devices for Digital Entertainment**
A. Castillejo (ST-Ericsson)
[Download Presentation](#) [6]
- 17:25 **Q&A**

Panel-Session, Moderator: B. Candaele (Thales)

- Network on Chip - Alternative Solutions and Future Directions**
C. Plomion (Arteris)
- 17:30 P. Bricaud (Synopsys)
M. Coppola (STMicroelectronics)
F. Clermidy (CEA-Leti)
I. O'Connor (Ecole Centrale de Lyon)
- 18:30 Break

Conference Dinner

- 19:30 Meeting point at hotel reception
- 19:45 Arrival at "Altmarktkeller" (Altmarkt 4, 01067 Dresden)
- 20:00 **Dinner**
- 23:00 End of 1st day

Wednesday, May 11, 2011

Keynote-Session, Moderator: W. Rosenstiel (edacentrum)

- Gaining 10x in Power Efficiency in the Next Decade in Consumer Products**
- 09:00 G. Teepe (GLOBALFOUNDRIES)
P. Magarshack (STMicroelectronics)
[Abstract and Curriculum Vitae](#) [7]
- 10:00 Coffee Break

Technical Session: High Level AMS Design, Moderator: S. Scotti (STMicroelectronics)

- Design Refinement of Embedded Analogue and Mixed-Signal Systems**
- 10:15 S. Scotti (STMicroelectronics),
M. Barnasconi (NXP), M.-M. Louerat (UPMC Paris), E. Vaumorin (Magillem)

A Performance Comparison Between the SystemC-AMS Models of Computation

10:50 F. Paugnat, L. Bousquet, K. Morin-Allory,
L. Fesquet (TIMA Laboratory)

Virtual Prototype of a Fibre-optical Gyrosensor with SystemC-AMS

11:15 S. Rieke, O. Waydhas (Northrop Grumman LITEF)
[Demo at Poster Exhibition](#) [8]

11:40 **Q&A**

Poster-Session, Moderator: R. Popp (edacentrum)

Introduction the Poster Exhibition

11:45 Comprising accepted scientific contributions and an overview on project posters and demonstrations

12:00 **Poster Exhibition** [8]

12:30 Lunch and Poster Exhibition

Technical Session: Design for Yield and Reliability, Moderator: G. Georgakos (Infineon)

14:00 **Design Methods to Influence SoC Quality, a Post HONEY View**
G. Georgakos (Infineon)

14:35 **New insights into oxide breakdown impact on MOS devices and circuits**
L. Gerrer (IMEP-LAHC laboratory)

15:00 **Methodology for Experimental Investigation of Matching and Ageing Effects**
B. Dimov (IMMS), E. Hennig (IMMS)

15:25 **Q&A**

15:30 Coffee Break

Panel-Session, Moderator: C. Sebeke (Bosch)

More than Moore – the Most Important Driver of Microelectronics! Or?

H.-J. Brand (GLOBALFOUNDRIES)
V. Herbig (X-FAB)
16:00 T. Hötzel (Atmel)
NN (STMicroelectronics)
S. Kroehnert (Nanium)
P. Schneider (Fraunhofer IIS)
W. Stronski (Cadence)

17:30 Break

Social Event

18:00 Meeting point at hotel reception for guided tour

18:15 **Guided tour at "Deutsches Hygiene Museum"**(Lingnerplatz 1, 01069 Dresden)

19:00 Meeting point at hotel reception

19:15 Arrival at "Deutsches Hygiene Museum" (Lingnerplatz 1, 01069 Dresden)

19:30 **Award of "EDA-Medaille 2011"**

19:45 **Dinner**

23:00 End of 2nd day

Thursday, May 12, 2011

Keynote-Session, Moderator: U.Schlichtmann (TU München)

Design and Verification of Dependable Analog Systems

- 09:00 L. Hedrich (U Frankfurt)
[Abstract and Curriculum Vitae](#) [9]
- 9:45 Coffee Break

Technical Session: Robust Design, Moderator: C. Sebeke (Bosch)

- 10:15 **Design Methods for ROBUST Electronic Systems - Searching for the Holy Grail?**
M. Radetzki (U Stuttgart)
- 10:50 **An NBTI Model for Efficient Transient Simulation of Analogue Circuits**
F. Salfelder, L. Hedrich (U Frankfurt)
- 11:15 **Error Prediction Based on Concurrent Self-test and Reduced Slack Time**
V. Gherman, J. Massas, S. Evain,
S. Chevobbe, Y. Bonhomme (CEA LIST)
- 11:40 **Award of "EDA Achievement Award 2011"**
- 12:00 **Poster Exhibition** [8]
- 13:00 Lunch and Poster Exhibition

Technical Session: Analog Synthesis and Optimization and 3D-Circuits, Moderator: L. Hedrich (U Frankfurt)

- 14:15 **SyEnA Drives Synthesis-Supported Design of Analog Circuits**
A. Graupner (ZMDi)
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- 14:50 **Reliability Optimization of Analog Circuits with Aged Sizing Rules and Area Trade-off**
X. Pan, H. Graeb (TU München)
- 15:15 **3D Physical Design: Challenges and Solutions**
R. Fischbach, J. Lienig, T. Meister (TU Dresden)
- 15:40 **Closing**
J. Haase (edacentrum)
- 15:50 End of 3rd day

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