

ReCoSoC'2013



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Welcome Address

Manfred Glesner – *General Chair*
François Philipp – *Organization*



8th International Workshop on Reconfigurable Communication-centric Systems-on-Chip

Darmstadt, 10 - 12 July 2013

Welcome to Darmstadt, City of Sciences !



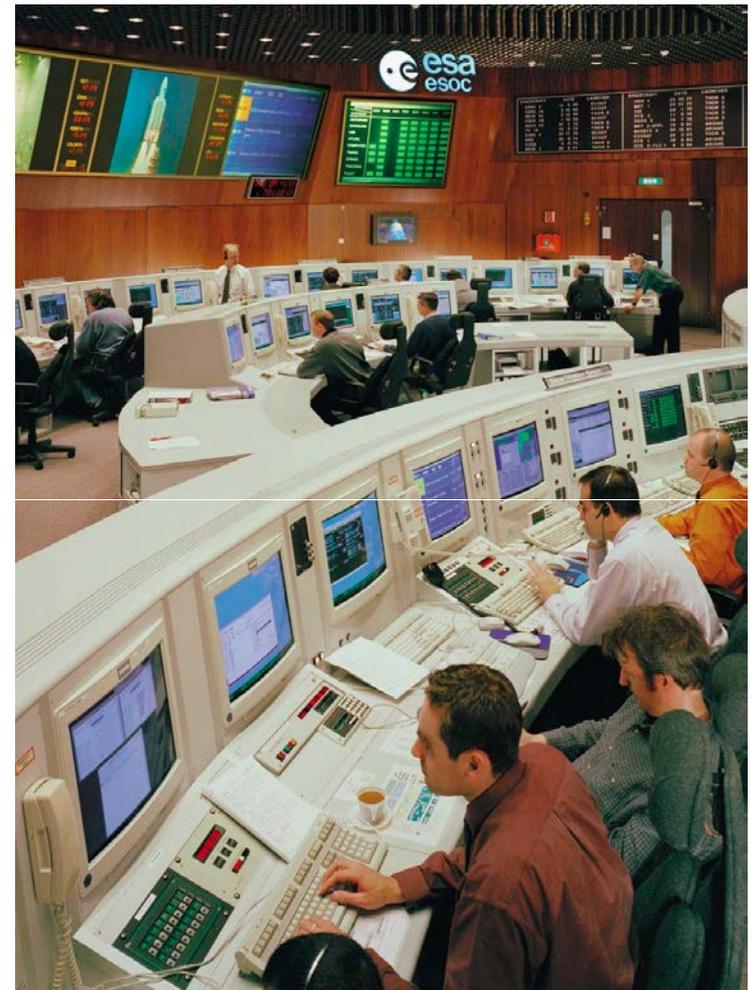
TECHNISCHE
UNIVERSITÄT
DARMSTADT



A scientific city

... with over 30 research and academic working institutions, among others:

- European Space Association **ESA/ESOC**
- European Organisation for the Exploitation of Meteorological Satellites **EUMESAT**
- **GSI** Helmholtz Center for Heavy Ion Research
- German Institute for Polymers
- Three **Fraunhofer** Institutes
- European Center for Aviation Development
- Hochschule Darmstadt / University of Applied Sciences



With inventive talent

Businesses from Darmstadt have earned international recognition. People achieve great things in this city.

Merck
Liquid Crystals

Wella
Cosmetics

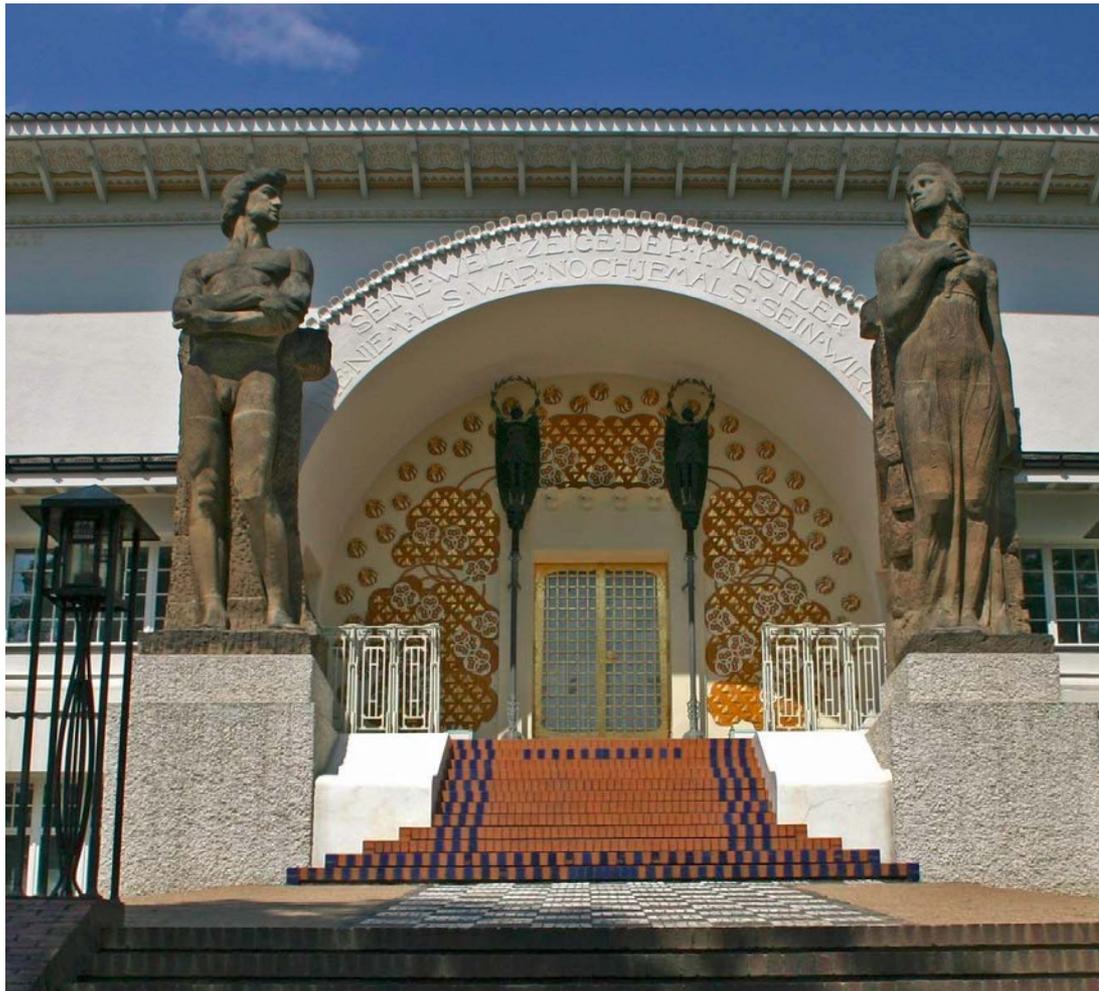
software ag
IT Business Solutions

Deutsche Telekom AG
Communication

... research, development, products,
trends and visions, worldwide.



With Culture and Art Nouveau



Mathildenhöhe is the symbol that represents Darmstadt as the Art Nouveau center.

Darmstadt – the city of the international holiday courses for New Music (characterized by composers like Karlheinz Stockhausen and John Cage), the internationally renowned Jazz Institute and the 'Waldspirale', one of the last buildings designed by Friedensreich Hundertwasser..

TU Darmstadt : People



25.100 Students

293 Professors

2.310 Research Associates

1.840 Administrative and technical employees

Directions



- 13 Departments
- 5 Fields of Study
- 110 Courses of Studies
 - 5 Collaborative Research Centers
 - 7 Graduate Colleges
 - 1 Research Cluster of Excellence
 - 2 Graduate Schools of Excellence
 - 3 LOEWE Centers of Excellence
 - 7 LOEWE Focus Areas

Curious on the Future



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Research clusters strengthen our profile:



Thermo-Fluids and Combustion Engineering

Product quality and energy efficiency for gas turbines, combustion engines, power plants, wind generators, airplanes



New Materials

Custom-fit technologies and materials for energy and communication technology, traffic and environmental engineering, et al.



Nuclear and Radiation Science

Research with most intense particle radiation of heavy ions and antimatter



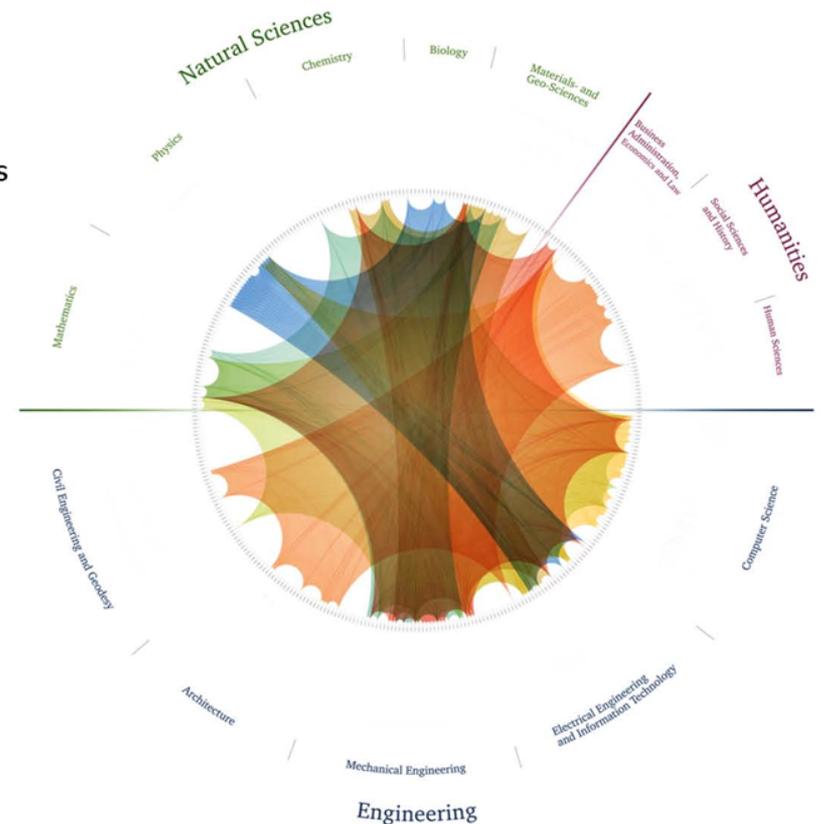
Integrated Product and Production Technology

Integration of product development and production system design with material sciences, business administration and logistics under the condition of scarce resources



Future Internet

Services in global and dense networks with secure, powerful and highly efficient technologies and applications



We are recommended

“In my opinion you must **definitely** go to Darmstadt.
They have a good Polytechnic School.”

Albert Einstein 1919



Guided Tour



*Along the Cultural Axis :
From Darmstadt Castle to Mathildenhöhe*

We invite you to discover the city and university history through a short guided tour with Brigitte Kuntzsch (about 1 hour)

Meeting place

Today at 17:30, S3|20 building

We kindly ask you to **register** for the tour at the registration desk

If the tour is full, we will schedule a second one after the workshop tomorrow.

Wireless Internet

- Wireless Internet can be accessed via the **eduroam** network
- If you do not have an eduroam access, you can use the username and password that you received at the registration desk
- Detailed instructions for the setup are included in the program and on the workshop USB drive
- Ask one of our assistant if you have issues with the connection



Friday Colloquium

Microelectronics at the End of Moore's Law

Honorary Colloquium Celebrating the
70th Birthday of Manfred Glesner

Series of scientific talks from academic and
industrial worldwide known representatives

Starting at 14:00 on Friday 12 July

Location :

S3|06 Hans-Busch-Institut, room 051
Merckstr. 25



We wish you an excellent stay in Darmstadt
and a fruitful and enriching ReCoSoC workshop !



8th International Workshop on Reconfigurable Communication-centric Systems-on-Chip
Darmstadt, 10 - 12 July 2013

Technical Program



Program Chairs:

Gert Jervan
Tallinn University of Technology
Estonia



Alberto Garcia-Ortiz
Universität Bremen
Germany



Submissions and Reviews



Number of Submissions: 52

Accepted: 35

- Oral presentations: 26
- Poster presentations: 9

Total number of reviews: 179

- Majority of papers received 3 or more reviews

Technical program



5 invited talks

6 regular sessions

3 special sessions

- Architecture, programming and run-time techniques for heterogeneous MPSoCs
 - *Organization: Luciano Ost, LIRMM (FR)*
- Architecture and development for application specific processors
 - *Organization: Michael Hübner, Uni Bochum (DE)*
- Special Session : Reconfigurable Systems for Security Applications
 - *Organization: Marc Stöttinger, Nanyang Technological University (SG)*

1 poster session

Enjoy the workshop!



8th International Workshop on Reconfigurable Communication-centric Systems-on-Chip
Darmstadt, 10 - 12 July 2013

Some Design Issues for 3D NoCs: From Circuits to Systems

Frédéric Piétrot (TIMA Lab, Grenoble)



8th International Workshop on Reconfigurable Communication-centric Systems-on-Chip
Darmstadt, 10 - 12 July 2013