Summer School on Advanced Technologies for Knowledge Intensive Networked Organisations

“We welcome you to FIR for a productive and exciting week of Summer School.”

Organized by:
FIR in the Network with its partner institutes

RWTH Aachen
- founded in 1870
- 30,000 students
- 5,000 students in Mechanical Engineering

Institute for Industrial Management (FIR)
- founded in 1954
- 140 employees
  (approx. 45 scientific employees)

Laboratories of Machine Tools and Production Engineering (WZL)
- founded in 1906
- 600 employees
  (approx. 160 scientific employees)

Fraunhofer Institute for Production Technologies (IPT)
- founded in 1980
- 340 employees
  (approx. 60 scientific employees)
Information Management
- Information Logistics
- Information Technologies
- Competence Center Electronic Commerce

Service Management
- Service Engineering
- Lean Services
- Community Management
- Competence Center Maintenance

Production Management
- Supply Chain Design
- Order management
- Logistic Management
- Competence Center IT-Management

Smart Object Innovation Lab

Service Science Innovation Lab

ERP Innovation Lab
Research

- **Key topics**
  - Business process management
  - Collaborative systems
  - RFID and SmartObjects
  - Technology alignment
  - Knowledge management
  - Technology application and validation
  - Semi-formal process divisions

- **Some projects**
  - ACTIVE
  - IMS2020
  - INESS
  - InTime
  - SmartWatts
  - SIMOKIM
  - SmartWheels
  - Eco2Cut
  - r2b - robot2business

- **Industries supported**
  - Automotive
  - Production
  - Alternative energy
  - Retail
  - Smart Appliances
  - Health care
  - Food processing
  - Maintenance
  - Manufacturing
  - SmartWheels
  - Storage
  - Utilities
  - e-Mobility
  - Logistics
  - Retail
  - Food processing
The Vision

RWTH Aachen Campus as catalyst for research and trigger for innovation

Research Yesterday
- Long development times
- Narrow scope for solutions

Solution Space

Knowing, where it is written

Research Today
- Long development times
- Narrow scope for solutions

Solution Space

Knowing, who knows what

Research Tomorrow
- Shortened development times
- Ample room for solutions

Solution Space

Knowing, where knowledge is created

RWTH Aachen Campus
Legende: UHSM Communication = Ultra High-Speed Mobile Communication
The clusters

- **Cluster Definition:**

  - Long Term Topic, > 5 years.
  - Strong acceptance from industrial partners
  - Intensive exchange between research results and industrial approval
  - Minimum 3 research chairs (Professors) and min 10 industrial partners
  - Each starting with min. 10000 m², 300 employes

sketch: rha reicher haase + associerte, Aachen
Events and Activities: Leading the way to the future!

- Key events and activities
  - ICE Conference 2011
  - Executive MBA for technology managers
  - Service Engineering Forum - Aachener Dienstleistungsforum
  - ERP days – Industrial forum
  - ECM days – Industrial forum
  - RWTH-Zertifikatkurs Chief Logistic-Manager
  - RWTH-Zertifikatkurs Chief RFID-Manager
  - RWTH-Zertifikatkurs Chief Service-Manager
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Top 5 offers

- 2nd summer school for ACTIVE project

- 5 project – ACTIVE, COIN, EURODICE, LarKC, OMEGA

- More then 20 sessions
  - Technical session
  - Theoretical sessions
  - Industrial case studies

- 3 Innovation Lab Concepts
  - ERP Innovation lab.
  - SMART Objects lab.
  - Service Science lab.

- Special thanks to JSI: Mitja, Spela and Monika; FIR: Stefanie
Flexible ICT architectures for the logical and semantic communication in the Internet of Energy
Smart Wheels
Mobility in the Internet of Energy

- **New business models**
- **Emissions** Free electric mobility
- **Integration in distribution networks**
- **Product & process standardization**
- **Prototypes & exploitation**
- **Intermodal E-mobility**

FEV Motorentechnik GmbH
Forschungsinstitut für Rationalisierung (FIR) an der RWTH Aachen
STAWAG, Stadtwerke Aachen AG
IFHT, RWTH Aachen
Mennekes Elektrotechnik GmbH & Co. KG
Regio IT Gesellschaft für Informationstechnologie mbH
DB Rent GmbH
ACTIVE
Knowledge Activated Enterprise

- Convert tacit and unshared knowledge into transferable, interoperable and actionable knowledge to support collaboration
- Provide an integrated context-aware knowledge workspace with support knowledge process management
- Increase the productivity of knowledge workers
simoKIM

Secure and Mobile Municipal Infrastructure management

- Blended services for Municipalities
- Location based services
- Mobile communication and infrastructure
- Business case validation

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Outline: Welcome at the heart of Technology Top Region

RWTH Aachen University

Aix-la-Chapelle

Center of Europe

Healing waters

Where the Kings got crowned

Aachen

Hottest springs of Central Europe

Aachener Printen

CHIO

UNESCO World Heritage Site
Summer School on
Advanced Technologies for Knowledge Intensive Networked Organisations

MAIN TOPICS:
- Interoperability and collaboration models and innovative solutions
- Cutting-edge semantically powered knowledge technologies
- Integrated approaches and platforms to support networked Org.s
- Large scale analytics and reasoning tools for networked enterprises
- Context Mining, Context Modelling, Social Software
- Knowledge Process Mining, Knowledge Process Modelling
- Pro-Active Knowledge Process Support
- Business models and industrial case studies
- Emerging innovation labs and concepts

Who should attend:
Academics and researcher; Business process & ICT experts; PHD and Masters students; New business developers...

Registration deadline (http://coin-active-ss.ijs.si)

Applicants notification

SPEAKERS: Paul Warren (Eurescom), John Davies (BT),
Sergio Gusmeroli (TXT e-solutions), Marko Grobelnik (JSI),
Michael Witbrock (Cycorp), Rayid Ghani (Accenture),
Igor Dolinšek (ComTrade), Paolo Paganelli (Insiel), Klaus
Fischer (DFKI), Boris Ansorge (FIR), Srdjan Komazec (STI)
Kim Jansson (VTT), Dirk Oedekhoven (FIR), Matthias
Deindl (FIR), Francesco Taglino (CNR), Patrick
Sitek (BIBA), and more...

Academia day
Oct. 18th
Academia day
Oct. 19th
Mix day
Oct. 20th
Demonstration day
Oct. 21st
Industry day
Oct. 22nd

WE INTEND TO...
1. Present cutting-edge technology solutions
2. Discuss & brainstorm emerging collaboration forms
3. Collect new and fresh ideas
4. Have FUN!

STUDENT FEE
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<th>Whole week registration, with (accommodation included: 18th – 22nd)</th>
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<td>Whole week registration</td>
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<tr>
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<td>Block registration – 3 days (18th – 20th OR 20th – 22nd)</td>
<td>35 Euros</td>
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NORMAL FEE
|                      | Whole week registration                                              | 200 Euros |
|                      | Block registration – 3 days (18th – 20th OR 20th – 22nd)             | 100 Euros |

Organizers:
Jozef Stefan Institute

Sponsors:
European Commission Initiatives

Aachen, Germany
October 18-22, 2010

Register: http://coin-active-ss.ijs.si
Or email: spela.sitar@ijs.si