

Welcome to the REV2008 Conference!

REV2008 is the fifth in a series of annual events concerning the area of remote engineering and virtual instrumentation. Previous editions of REV were organised in the form of an international symposium, which from 2007 assumes the role of the annual conference of the International Association of Online Engineering (www.online-engineering.org). The general objective of this conference is to discuss fundamentals, applications and experiences in the field of remote engineering, both in industry and academia. REV2008 combines an exciting technical program with opportunities to network with other researchers during the social event on June 22 & 23.



Scope of the conference

Remote Engineering and Virtual Instrumentation are very future trends in engineering and science. Due to:

- the growing complexity of engineering tasks,
- more and more specialized and expensive equipments as well as software tools and simulators,
- the necessary use of expensive equipment and software tools/simulators in short time projects,
- the application of high tech equipment also in SME's,
- the need of high qualified staff to control recent equipment,
- the demands of globalization and division of labour,

it is increasingly necessary to allow and organize a shared use of equipment, but also specialized software as for example simulators. Organizers especially encourage people from industry to present their experience and applications of remote engineering and virtual instruments.

The general objective of this conference is to discuss fundamentals, applications and experiences in the field of remote engineering and virtual instrumentation.

The use of virtual and remote laboratories is one of the future directions for advanced teleworking, remote service and e-working environments.

Another objective of the symposium is to discuss guidelines for education in university level courses for this topic.

This conference will be organized by Department of Electrical Engineering of University of Applied Sciences Duesseldorf :



Topics of interest include (but are not limited to)

- Virtual and remote laboratories
- Remote process visualization and virtual Instrumentation
- Remote control and measurement technologies
- Online engineering
- Networking and grid technologies
- Mixed Reality environments for education and training
- Demands in education and training, e-learning, b-learning, m-learning and ODL
- Teleworking environments
- Telecommunity and their social impact
- Present and future trends including social and educational aspects
- Human computer interfaces, usability, reusability, accessibility
- Applications and experiences
- Standards and standardization proposals
- Innovative organizational and educational concepts for remote engineering

- Teleservice and telerobotics
- Telerobotics and telepresence
- Support of collaborative work in virtual engineering environments
- Products

Types of sessions

- **Full Paper sessions** (peer reviewed)
- **Interactive demonstrations** (online demonstrations or lectures from a remote location are also welcome)
- **Poster sessions**
- **Discussion panels**
- **Tutorials**
- **Keynote talks**

Other opportunities to participate

Thematic workshops / tutorials / technical sessions, as well as interactive demonstrations and exhibitions, may also be proposed. Prospective organisers of other REV2008 events are encouraged to contact the Conference Chair. It is intended to broadcast all technical sessions via Internet.

Conference language

English.

Proceedings

The proceedings will be published on CD in cooperation with the Kassel University Press (own ISBN number). Format instructions will be available in time.

Supported by



In cooperation with:



Have a look at

- **IMCL 2008** , April 16 - 18, 2008 in Amman, Jordan
 - **ICELW 2008** , June 12 - 13, 2008 in New York, USA
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For your planning

REV2009 will be held in Bridgeport, USA