



# INDIN 2007

5th IEEE International Conference  
on Industrial Informatics  
- a networked world -

July 23-26, 2007, Vienna, Austria

**General Chairs** Dietmar Dietrich (Vienna Univ. of Technology), Austria, Gerhard Hancke (Univ. of Pretoria), South Africa  
**Technical Program Chair** Peter Palensky (Vienna Univ. of Technology), Austria

INDIN 2007 is the 5th International Conference on Industrial Informatics, sponsored by the Industrial Electronics Society of the IEEE. It aims to network researchers, academics, engineers, and industry experts to discuss break-through research, new ideas, recent developments, and new applications related to industrial informatics. Come and meet other experts in the field, and benefit from cutting-edge research presentations, personal discussions, whilst enjoying an exhilarating social program in the charming city of Vienna.

Prospective authors are invited to electronically submit a full paper (6 pages, about 4500 words, PDF format) of their original work following the IEEE instructions available on the website of the conference. Selected best papers will be invited to submit to IEEE transactions on Industrial Informatics.

## Highlight: ENF07 - the joint Forum with the Neuro-Psychoanalysis Association

The requirements of Industrial Informatics Systems are constantly growing, and problems are becoming increasingly complex. It is time to broaden our view and explore new avenues for solutions. Neurology and Psychology could provide valuable new insights, understanding, and approaches to many of our tantalizing questions:

*INDIN 2007 is proud to host the first Engineering Neuro-Psychoanalysis Forum  
ENF 2007, co-sponsored by IEEE IES and the Neuro-Psychoanalysis Association.  
[www.indin2007.org/enf](http://www.indin2007.org/enf)*

### • Buildings, Networks and Automation

**Chairs:** Klaus Kabitzsch, Wolfgang Kastner, Seung Ho Hong

- Powerline and wireless networks
- Fieldbus and IP-based networks
- Convergence of networks
- Interoperability and middleware
- Remote access and administration
- Modeling and simulation
- Facility management and new services
- Visualization and web-services

### • Security and Safety

**Chairs:** Peter Wratil, Walter Penzhorn, Peter Fischer

- High availability and fault tolerant systems
- Security models and risk management
- Functional & electrical safety
- Security in IT and Industrial Informatics
- Hardware, protocols and operating systems
- Privacy and anonymity
- E-Commerce and E-Government
- Applications

### Factory Automation

**Chairs:** Jing Bing Zhang, Martin Wollschlaeger, Josep Fuertes

- Real-time systems
- IP in factory automation
- Interoperability
- Autonomous and agent systems
- Formal methods and simulation
- Tools & platforms
- Intelligent production systems
- Factory communication

### • Robotics and autonomous Systems

**Chairs:** Ivan Petrovic, Louis Gomes, Gregor Novak

- Embedded systems
- Low-power and power-aware systems
- Modeling and simulation
- Collaborative systems
- Infomechatronics
- Image processing
- HW/SW co-design
- Applications

### • Service-Oriented Architecture

**Chairs:** Jose L. Martinez Lastra, Harm Smit

- Web Services in Industrial Environment
- Orchestration and choreography
- Semantic Web Services and Ontologies
- Middleware infrastructures
- Service discovery and matchmaking
- Legacy system integration
- Real-time issues
- Engineering tools and frameworks

### • Infrastructure and Technology

**Chairs:** Jean Pierre Thomesse, Jose Fonseca, Thilo Sauter

- Distributed and collaborative systems
- Standardization
- Robust communication
- Wide area systems
- Intelligent systems
- Smart sensors
- Embedded systems
- Knowledge management

### • Cognitive Science in Industrial Informatics

**Chairs:** Dan Wilamowski, Rainer Unland, Robert Trapp

- Artificial Intelligence
- Expert systems
- Intelligent algorithms
- Architectures and Applications
- Data management and multisensor fusion
- Modeling and simulation
- Ontologies
- Human Machine Interaction

### • Applications of Industrial Informatics

**Chairs:** Francisco Vasques, Tuan Dang, Christoph Grimm

- Transport and logistics
- Biomedical systems
- Automobile systems
- Power and energy systems
- Aerospace systems
- Multimedia systems
- Telecommunication systems
- Industrial electronics

### • E-Applications

**Chairs:** Aleksander Malinowski, Hermann Kaindl, Mihaela Ulieru

- E-Logistics
- E-Factory
- Workflow and supply chain management
- Decision support
- Object oriented methods
- Information integration
- Semantic Web
- E-Business and E-Marketing

### • Embedded and Networked Control in Collaborative Manufacturing

**Chairs:** Luca Ferrarini, Valeriy Vyatkin, Robert Brennan

- Standards, Architectures, Platforms, Tools and Methodologies
- Reconfigurable and self-configurable systems
- Plug and play of automated systems
- Ambient information environments in enterprise and beyond
- Communications within and between embedded systems
- Object-oriented and model-based engineering, Formal models
- Remote maintenance and security solutions
- Fault-tolerant architectures and systems

### Important dates:

Nov. 15, 2006

Special Session proposals

Dec. 15, 2006

Full paper submissions

Feb. 15, 2007

Notification of acceptance

March 15, 2007

Camera-ready submission

INDIN 2007 Secretariat

Institute of Computer Technology

Gusshausstr. 27-29/384

A-1040 Vienna, Austria

Tel.: +43 1 58801-38411

Fax: +43 1 58801-38499

[www.indin2007.org](http://www.indin2007.org)

