

# ***Special Issue of the Newsletter*** ***of the IFAC Technical Committee on Human-Machine-Systems***

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## **New TC Chair elected**

Our Technical Committee has elected a new chair: After two triennials, which is the maximum time a single member is allowed to hold this position, Prof. Zühlke has been suggested to take over the chair of the superordinated Coordinating Committee (see next article). He is being succeeded by Prof. Wan Chul Yoon (Korea Advanced Institute of Science and Technology), who had organized the IFAC-HMS Symposium in Seoul this September, and had previously been our co-chair for the last triennium. He will be supported by two new co-chairs, Prof. Patrick Millot (Laboratoire d'Automatique et de Mécanique Industrielles et Humaines, Université de Valenciennes) and Prof. Tan Kay Chuan (Department of Industrial and Systems Engineering, National University of Singapore). The new chair team will take over office in July 2008.

**Prof. Wan Chul Yoon**  
Chair



wcyoon@kaist.ac.kr

**Prof. Patrick Millot**  
Co-Chair



millot@univ-valenciennes.fr

**Prof. Tan Kay Chuan**  
Co-Chair



isetankc@nus.edu.sg

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Detlef Zühlke ([zuehlke@mv.uni-kl.de](mailto:zuehlke@mv.uni-kl.de))

Chair of IFAC TC 4.5 (HMS)

## **Prof. Zühlke nominated to chair the Coordinating Committee**

After two triennials of chairing the TC 4.5, Prof. Detlef Zühlke (University of Kaiserslautern/Germany) has been proposed to become the new chairman of the Coordinating Committee, CC 4, on Mechatronics, Robotics and Components, which is responsible for five IFAC Technical Committees:



- TC 4.1: Components and Technologies for Control  
(chaired by Don-Il Cho, Korea)
- TC 4.2: Mechatronic Systems  
(chaired by Masayoshi Tomizuka, United States)
- TC 4.3: Robotics  
(chaired by Hideki Hashimoto, Japan)
- TC 4.4: Cost Oriented Automation  
(chaired by Wei Wang, Canada)
- TC 4.5: Human Machine Systems  
(chaired by Detlef Zühlke, Germany, succeeded by Wan Chul Yoon, Korea)

The Coordinating Committee plans and monitors the Technical Boards' events, such as symposia, conferences and workshops. They are also responsible for establishing contacts to other organizations in their respective area of research, for publishing reports, and for promoting their area of research to a wider audience.

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Daniel Görlich ([goerlich@mv.uni-kl.de](mailto:goerlich@mv.uni-kl.de))

IFAC TC 4.5 (HMS) Editorial

## **IFAC HMS: Review**

The 10<sup>th</sup> IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems was held in Seoul during September 4-6. The triennial meeting was being hosted by the Ergonomic Society of Korea and financially sponsored by KAIST (the Korea Advanced Institute of Science and Technology). The venue, Sheraton Grande Walkerhill Hotel, boasted a nice river view and was well separated from the busy city, being surrounded by a beautiful landscape.

During the three-day symposium, 113 technical papers were presented in 17 parallel sessions, 6 thematic topic sessions and a poster session. The 1<sup>st</sup> International Workshop on Model-Driven User-Centric Design & Engineering (MDUCDE 2007) was also held within the Symposium occupying 3 thematic sessions on the second day. It was remarkable that the symposium recovered its size of over 150 participants after two inevitable decreases in previous meetings in 2001 and 2004. A total of 152 people, including 36 students, registered. Besides the host country (Korea), Germany (19), France (16), Japan (16) topped the participation.



The four enlightening plenary talks given by leading scholars in their areas, while being centered around the theme of the paradigmatic shift in human-machine systems development, were well positioned to consider the most important research fields. These were:

- **25 Years of Human-Machine Systems in IFAC**  
Prof. Gunnar Johanssen, University of Kassel, Germany.
- **Smart Collaborations between Humans and Machines Based on Mutual Understanding**  
Prof. Toshiyuki Inagaki, University of Tsukuba, Japan.
- **The New Mission of HMS: From Overcoming Limitations to Securing Safety**  
Prof. Erik Hollnagel, École des Mines de Paris / Pôle Cindyniques, France.
- **Model-based Development of User Interfaces — A New Paradigm in Useware Engineering**  
Prof. Detlef Zühlke, University of Kaiserslautern, Germany.

The plenary papers as well as a selection of papers from the Symposium will be included into the final Elsevier proceeding series, and recommended to be printed in leading journals.

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Wan Chul Yoon ([wcyoon@kaist.ac.kr](mailto:wcyoon@kaist.ac.kr))

Co-Chair of IFAC TC 4.5 (HMS)

Daniel Görlich ([goerlich@mv.uni-kl.de](mailto:goerlich@mv.uni-kl.de))

IFAC TC 4.5 (HMS) Editorial

### **Next TC 4.5 Meeting to take place in Valenciennes/France**

After this year's meeting at the IFAC-HMS Symposium in Seoul, the next meeting of our TC 4.5 will be hosted by Prof. Patrick Millot's Laboratoire d'Automatique et de Mécanique Industrielles et Humaines at the Université de Valenciennes et du Hainaut-Cambrésis. Located at the Northern border of France, the city of Valenciennes is well-known for its metalworking and its

automobile industry. Educating more than 10,000 students, its university excels in a variety of research disciplines, among them humanities and social sciences, human-machine systems, electronics and, of course, engineering sciences.

The TC 4.5 symposium in Valenciennes is still scheduled for the year 2010. Afterwards, a shorter cycle will increase the frequency of our meetings to only two years. The host for 2012 is therefore to be selected at our symposium in Valenciennes.

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Daniel Görlich ([goerlich@mv.uni-kl.de](mailto:goerlich@mv.uni-kl.de))

IFAC TC 4.5 (HMS) Editorial

### Forthcoming events

- IFAC World Congress, July 06 – 11, 2008, Seoul/Korea  
<http://www.ifac2008.org/>
- 9<sup>th</sup> IFAC IFIP Workshop on Intelligent Manufacturing Systems Congress, October 09 – 10, 2008, Szczecin/Poland  
<http://www.ims08.ps.pl/>

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Daniel Görlich ([goerlich@mv.uni-kl.de](mailto:goerlich@mv.uni-kl.de))

IFAC TC 4.5 (HMS) Editorial

### Editorials

- You are cordially invited to contribute to the TC 4.5 newsletter. As usual the main topics are Human-Machine Systems and other related topics/events in your field of research/work. Please send your article as a Word or PDF document to [ifac\\_tc45@uni-kl.de](mailto:ifac_tc45@uni-kl.de)
- To subscribe to this newsletter service, send an email to [sympa@uni-kl.de](mailto:sympa@uni-kl.de) with the subject: **sub ifac\_tc45**
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