

# Newsletter

## of the IFAC Technical Committee on Human-Machine-Systems

Issue #3, October 2006

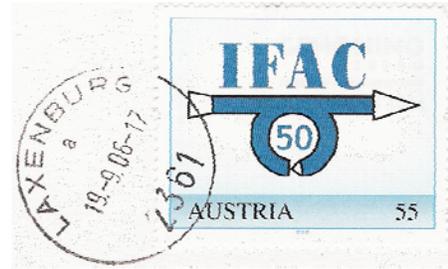
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### From the Chair: 50<sup>th</sup> Anniversary

In September the IFAC celebrated its 50<sup>th</sup> anniversary in Heidelberg/Germany where it was also founded in 1956 during a conference on Automatic Control. At that conference 30 participants signed a declaration that clearly defined the need to create an international organization of Automatic Control. The dignitaries pledged to promote the formation of national organizations, if not already existing at that time.



At the end of the Heidelberg Conference a Provisional Committee was established under the chairmanship of Victor Broida (France) with the task to draft a constitution for the planned International federation of Automatic Control.

On September 12, 1957, the first General Assembly convened at the constituent meeting in Paris. To celebrate this event, the German NMO VDI-GMA organized a conference where several high-ranking keynote-speakers from academia and industry gave an overview on the past and the future of Automatic Control. Besides, a panel discussion was organized by the technical board chair on emerging technologies in the field of Automatic Control. During the preparatory meetings the chairs and co-chairs of the IFAC committees plus additional experts from industry discussed emerging areas and their implications on technologies. During these discussions, two general tendencies became obvious:

1. Future advancements in science and technology will require more and more interdisciplinary approaches so that we must learn from other fields like psychology, informatics or social sciences.
2. As technical systems become more and more complex, we need more abstract representations of our systems. Therefore the field of computer sciences can give a direction, where system design has been based on abstract, object-oriented descriptions for many years.

Both topics are also valid for our field of human-machine-systems. It has per se been living the interdisciplinary approach since its foundation and will urge us to move into further abstract design steps of HMS in the future. Our next symposium on "Analysis, Design and Evaluation of HMS" will not only be our 10<sup>th</sup> anniversary symposium, but also constitute a good opportunity to

demonstrate interdisciplinary and system design advancements. Thus, I would be very pleased to welcome numerous members and supporters of our TC 4.5 next year in Seoul/Korea.

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Detlef Zuehlke

Chair IFAC TC 4.5 (HMS)

### **Updated Call for Papers: 10<sup>th</sup> IFAC/IFIP/IFORS/IEA Symposium**

The Call for Papers that we had already published in our previous newsletter has been updated, as follows.

Among others, the deadline for abstract submissions has been extended to the end of November. Further, you can still suggest topics for workshops and panel discussions to the IPC Chair, Prof. Wan Chul Yoon ([wcyoon@kaist.ac.kr](mailto:wcyoon@kaist.ac.kr)). For more details, please find the updated Call for Papers attached to this newsletter, or visit the symposium's web site at:

<http://www.ifac-hms-2007.com/>

We would also like to announce that the Center for Human-Machine Interaction is clarifying with the organizers about a parallel workshop on Model-Driven User-Centric Design & Engineering of HMS to accompany the symposium. Following the highly successful workshop on Model-Driven Development of Advanced User Interfaces at the MoDELS 2006 conference (see also <http://www2.edm.uhasselt.be/mddaui2006/>), it shall bring together a community of academic and industrial researchers from Human-Computer Interaction, Model-Driven Development, and Human Factors.

The 10<sup>th</sup> IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems will be held in Seoul, Korea, on 4-6 September, 2007, being hosted by the Ergonomic Society of Korea. The International Program Committee invites you to submit a proposal and join us in this prestigious international event for scholars and experts. The symposium will continue the success of the previous meetings, which were held in Cambridge, Mass. (US), Kyoto (JP), Kassel (DE) and Atlanta (US). The objective of this symposium is to exchange ideas and further understanding in the areas of Human-Machine Systems, Human-Computer Interaction, Intelligent and Autonomous Systems and Decision Support Systems. The symposium will especially highlight the paradigm shifts in research and practice we witness in these areas due to the recent advance of communication and information technologies.

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MDUCDE Organizer

## Forthcoming events

- 8<sup>th</sup> IFAC Symposium on Cost Oriented Automation – Affordable Automation Systems (COA 2007), February 12 – 14, 2007, Ciudad de La Habana/Cuba  
<http://www.cujae.edu.cu/coa07/>
- 10<sup>th</sup> IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems, September 4 – 6, 2007, Seoul/Korea  
accommodating the Workshop on Model-Driven User-Centric Design & Engineering of HMS  
<http://www.ifac-hms-2007.com/>
- IFAC World Congress, July 06 – 11, 2008, Seoul/Korea  
<http://www.ifac2008.org/>

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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 MS 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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