

CALL FOR PAPERS

Special Session on Processes and Tools for Mechatronical Engineering of Production Systems

to be held in the frame of
IECON 2013 - The 39th Annual Conference of the IEEE Industrial Electronics Society
10th - 13th of November 2013, Austria Center, Vienna, Austria



TOPIC OF THE SPECIAL SESSION

Mechatrical thinking can change both the design of new manufacturing systems and the execution of engineering processes and tools. Although there are many research activities highlighting benefits, use, and requirements of mechatrical thinking within the engineering of production systems, the overall “big picture” seems missing. To overcome this problem, this special session intends to bring together the isolated research activities within the field of mechatrical engineering and will enable an overview about reached results and required further research within this field against the background of a successful application of mechatronical engineering for production systems.

Therefore, this special session will cover the following topics but is not limited to:

- Engineering workflows exploiting mechatronical thinking,
- Changes within the information exchange within the engineering chain,
- Necessary changes to and properties of engineering tools to facilitate mechatronical engineering,
- Concepts for engineering tool integration,

SPECIAL SESSION ORGANISATION

Arndt Lüder
arndt.lueder@ovgu.de

Stefan Biffl
Stefan.Biffl@tuwien.ac.at

The organizers look forward to welcoming you to Vienna, Austria from 10th to 13th November 2013.

Important Dates

Regular Paper submission:	April 01, 2013
Notification of acceptance:	June 15, 2013
Final submission:	August 01, 2013



- Benefits and drawbacks of the application of mechatronical engineering, and
- Practical experiences within the application of mechatronical engineering.

Overall, these topics envision possibilities like reuse of engineering artifacts, increase of engineering process quality, distributed and parallel engineering, or industrial domaincrossing standardization based on mechatronical thinking across engineering disciplines and industries.

SUBMISSION OF PAPERS

The working language of the conference is English. Submit the full paper as PDF following the IEEE layout requirements by using the templates given at the conference web page. Accepted and presented papers will be published in an IEEE Proceedings volume and will be sent to IEEE Xplore. In addition, selected authors are encouraged to submit their papers for publication in the IEEE Transactions on Industrial Electronics or in the IEEE Transactions on Industrial Informatics.

THE CONFERENCE

IECON 2013 is the 39th Annual Conference of the IEEE Industrial Electronics Society, focusing on industrial and manufacturing theory and applications of electronics, controls, communications, instrumentation and computational intelligence. The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology, and fellowship.

Papers with new research results are encouraged for submission. IECON 2013

will be held concurrently with the 7th IEEE International Conference on E-Learning in Industrial Electronics (ICE-LIE 2013). Participation in any of these events just requires a single conference registration fee. The world's industry, research, and academia are cordially invited to participate in the wealth of presentations, tutorials, special sessions and social activities, and furthermore, enjoy beautiful Vienna.