

Call for Papers
ISCIE/ASME 2014 International Symposium on Flexible Automation (ISFA2014)
14 - 16 July 2014
Awaji-Island, Hyogo, Japan
<http://www-dsc.mech.eng.osaka-u.ac.jp/ISFA2014/>

Hybrid Manufacturing

To address the increased flexibility, efficiency, and complexity of product design, batch size, process chain, and customer demands, the emerging Hybrid Manufacturing may provide competitive solutions to production. The combination of processes within one machine gives potential to machine materials and/or (often complicated) parts in a more efficient, flexible, and productive way. These hybrid technologies give new possibilities to machine materials or shapes which could not be done before. The term “hybrid” may be a combination of different active processing principles at the same time, Hybrid machines which integrates different processes within one machining platform, a combination of process steps which are usually performed in two or more process steps, or hybrid products having a hybrid structure or hybrid function. However, as an emerging manufacturing concept, hybrid manufacturing is not well defined and understood. Therefore, the objective of this session is to provide a forum for discussions of research on some fundamental and practical aspects of hybrid manufacturing. The topics of interest for this session include, but are not limited to, the following topics:

- Vibration-assisted processes
- Laser-assisted processes
- Process combinations with EDM and ECM
- Media-assisted processes
- Other combined processes
- Hybrid machine tools
- Hybrid machining centers
- Flexibility of hybrid processes

Original papers on the aforementioned topics of interest are encouraged for submission to the session. Papers from the industrial sector are strongly encouraged.

Paper Submission

All papers should be written in English. Both long and short papers will be considered. A long paper is defined as from 6 to 8 proceedings pages and a short paper as less than 4 pages (about 1000 words per page). Long papers are reviewed as full manuscripts including abstract (about 150 words) and keywords. Short papers are screened by a 600-1000 word summary with keywords. The manuscripts and summaries should include: title of the paper, name(s) and affiliation(s) of author(s); mailing address and e-mail address of the contact person. The templates for manuscript and summary are posted on the conference web site. Please submit your manuscript(s) per the instructions posted on the conference website (<http://www-dsc.mech.eng.osaka-u.ac.jp/ISFA2014/>).

Submission Deadlines

Paper submission: **November 29, 2013**

Paper acceptance notification: **March 1, 2014**

Submission of final Paper: **April 4, 2014**

Session Co-Organizer(s)

Prof. Y.B. Guo
Department of Mechanical Engineering
The University of Alabama
Tuscaloosa, AL 35487, USA
Phone: 205-348-2615, Fax: 205-348-6419
Email: yguo@eng.ua.edu

Dr.-Ing. Andreas Klink
Lab. of Machine Tools and Production
Engineering (WZL)
RWTH Aachen University, Germany
Tel.: +49 241 80-28242, Fax: +49 241 80-22293
Email: A.Klink@wzl.rwth-aachen.de