

Application Form / Workshop Description



Please note:

There are lots of workshop proposals expected. A detailed description of your workshop proposal will make it easier for the organisers (and at a later stage the participants) to select the right workshops.

Session Title: Challenges in Industrial robotics: what are real problems and what are current approaches?

Organiser(s):

Martin Haegele, mmh@ipa.fhg.de

Motivation and objective:

Manufacturing will increasingly be subject to uncertainties in terms of product variants, volumes and lifetimes owing to turbulence on global markets, which will require changeover and reconfiguration capabilities beyond those of today's flexible manufacturing lines. Robotics, especially in the form of robot assistants, can in many ways be a key factor in addressing these challenges.

The goal of this workshop is to look into major challenges of future manufacturing: (automation for SMEs, transformation in automobile manufacturing, socio-demographics), to learn about roadmaps in industrial robotics and associated research efforts.

Approach:

It is planned to have a line-up of 4 to max 5 targeted presentations (à 15 min) plus discussion: Introduction into the topic, presentations from manufacturing industries, automation equipment suppliers and research.

3 presentations are planned from manufacturing industry: Non-automotive (Grundfos) and Automotive (supplier/BOSCH, and OEM/BMW or Daimler).

Agenda of the workshop:

Please write (if possible) how you plan to structure your workshop. E.g.

- 10 min Introduction by the moderators
- 4 à 15 min Presentations by selected participants
- 30 min Final Discussion

Speaker(s):

Martin Hägele Fraunhofer IPA (intro)

N.N. from Daimler/BMW/Grundfos: A survey on real challenges and problems in manufacturing

Peter Schlaich Bosch GmbH: „Co-Robots: Enabler for economic assembly automation at high cost locations”

Klas Nilsson Lunds Universitet: “Industrial robotics beyond flexible manufacturing”

Claus Risager/DTI:

N.N. KUKA ?

How can participants contribute to, and prepare for, the workshop?

T.b.d.

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Planned follow-up:

Create awareness for industrial robotics, enforce techtransfer, advertise for participation in standardization committees (safety, industrial IT)

For more information:

Martin Haegele
Fraunhofer Institute for
Manufacturing Engineering and Automation IPA
Head of Department "Robot Systems"
Nobelstrasse 12
D-70569 Stuttgart, Germany
T: +49 711 970 1203; M: +49 171 820 0086; E: mmh@ipa.fhg.de

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Please reply to:

Fariba Khatami
EUnited Robotics
Boulevard A. Reyers 80
1030 Brussels
Belgium
Fariba.khatami@eu-nited.net
Tel: +32 2 706 8222

The European Robotics Forum will take place from 5-7 March 2012 in Odense, Denmark, hosted by the Danish Technological Institute (DTI). More than 300 robotics researchers from industry and academia, as well as entrepreneurs and public investors are expected to discuss the latest developments, research challenges and business opportunities for European robotics. This year's theme of the European Robotics Forum is "European Robotics towards new horizons".