

12 March, 10:45 – 12:15

Session Title: **Digital Skills for attractive jobs in manufacturing and service automation**

Organiser(s): Martin HAEGELE, Fraunhofer Institute for Manufacturing Engineering and Automation, Stuttgart, Germany; Martin.Haegele@ipa.fraunhofer.de

Content: New trends in robotics and automation will significantly shape future manufacturing and services:

- We anticipate that rigid production lines will be increasingly replaced by agile production environments which will build on human-robot cooperation, effective use of autonomous guided vehicle for flexible logistics, lean equipment and advanced industrial IT for near optimum manufacturing for volatile markets. Furthermore advanced automation equipment is increasingly used in small to medium sized manufacturing.
- Service robots will increasingly become part of professional services in areas as diverse as health care, logistics, and facility maintenance.

At the same time the role of the worker or of the service provider will drastically change from physical labour to competence and skills. This opens up new opportunities and challenges: Attractive, well paid work places, interest in manufacturing and service jobs among the youth, and the perspective to keep workers longer in their professional live. However this will entail activities in educating and training workers at all age levels. This aspect of what digital skills will be required for future manufacturing and service jobs and how to educate and enable the work force at all age and qualification levels will be the topic of this session. The goal is to discuss the skills gap in the robotics context and identify relevant skills, in particular concerning the users of robots.

Agenda of the workshop:

- Introduction and motivation of the topic (Martin Haegele)
- Digital Skills Strategy of the European Commission (Bjoern Juretzki)
- Worker needs - opportunities and challenges (Martin Beckmann)
- The Danish practice and experiences (Kurt Nielsen)
- Case study: Human-Robot Collaboration in Wooden House Production (Ludovic Resch)

Speaker(s): Juretzki, Bjoern, European Commission
Beckmann, Martin, ver.di, Germany
Nielsen, Kurt, DTI, Denmark
Resch, Ludovic, MIVELAZ Techniques Bois SA, Switzerland (tbd)