



SPECIAL SESSION SS01

2020 3rd International Symposium on Small-scale Intelligent Manufacturing Systems (SIMS 2020) will include Special Sessions, which are organized on highly specialized topics within conference scope that were not included in the previous editions of the conference.

Session details:

Session title: Agile Manufacturing - building competence at European SMEs	
<p>Session description (session scope, novelty, goals; 100-200 words):</p> <p>Small and medium-sized enterprises (SMEs) are the backbone of European economy. In an era of Industry 4.0 with intensified global competition, rapid changes in customers' requirement and technological development, building up SMEs' competence in digital innovation through automation and agile manufacturing will not only enhance competitiveness of European SMEs but also ensures sustainable development.</p> <p>The session aims to create an arena where experience of competence building in manufacturing SMEs is shared. Insight in challenges a SME meets as well as analysis on possible countermeasures, as well as showcases, both in- and outside of Europe, are valuable contribution to the session.</p> <p>The session welcomes especially input from industrial practitioners who are interesting in, conducting, and/or skilled in introducing digital technologies, advance robotics and cyber-security for agile manufacturing. Academic contribution that is in close cooperation with industrial partners are also highly appreciated.</p> <p>The session is supported by H2020 TRINITY (Digital Technologies, Advanced Robotics and increased Cyber-security for Agile Production in Future European Manufacturing Ecosystems) project (grant number: 825196).</p>	<p>Keywords, topics:</p> <p>Agile Manufacturing, digital twin, robotics, cyber-security, industrial showcase</p>

Organizer(s) details:

First organizer: <u>Prof. Wei Deng Solvang</u>	
E-mail: wei.d.solvang@uit.no	Affiliation: <u>UiT the Arctic University of Norway</u>
Short bio: Wei Deng Solvang works as a professor in Industrial Engineering at UiT the Arctic University of Norway. Her research interests are intelligent manufacturing and logistics in the era of Industry 4.0. She has worked closely with SMEs in the last twenty years and is an experience researcher in assisting industries for competence building in the North.	
Second organizer: <u>Dr. Sakari Pieska</u>	
E-mail: sakari.pieska@centria.fi	Affiliation: <u>Centria University of Applied Science</u>
Short bio: Dr. Sakari Pieskä is currently working as a senior research scientist / principal lecturer at Centria University of Applied Sciences. He has a long experience in working national and international research project. His core competence includes agile and collaborative robotics, digital manufacturing, industrial internet, innovations and SME collaboration.	

Third organizer: Prof. Åsa Ericson

E-mail: asa.ericson@ltu.se

Affiliation: Luleå University of Technology

Short bio: Åsa Ericson is a Professor in product-service systems at Luleå University of Technology. She is doing research in the topics of innovation processes and digital service design with a particular interest in the early stages of product development. She works mainly in joint academia/industrial projects.



<https://www.ntnu.edu/ieee-sims-2020>
