



## Editorial - Procedia CIRP

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**6th CIRP Conference on Computer Aided Tolerancing (CATS)****Editorial****Rikard Söderberg**

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This Procedia CIRP volume contains the Proceedings of the 6<sup>th</sup> Conference on Assembly Technologies and Systems (CATS) on May 16-18<sup>th</sup> 2016 in Gothenburg, Sweden. The conference was hosted by Wingquist Laboratory and Chalmers University of Technology and was chaired by Professor Rikard Söderberg.

The theme of the conference was “Virtual Assembly”. Virtual Assembly refers to the possibility to replace physical tests and prototypes with virtual methods. This corresponds well to the challenges of modern industry with increased requirement on improved quality and performance, shortened lead time, better working environment and a more sustainable production. At this conference, various methods and techniques for both manual and automated assembly aiming to reduce waste of resources in the production system were addressed.

The conference included 73 papers of high quality. The papers addressed a variety of research topics, such as assembly system design and planning, new assembly system concepts, assembly strategies in platform based development, variety management, disassembly and remanufacturing, path planning for assembly and disassembly, human – machine interaction in assembly, levels of automation in assembly systems, humans factors, ergonomics and training, sustainability indicators in assembly, energy efficiency in assembly and joining, and flexible and intelligent joining systems.

All papers were carefully reviewed by the International Scientific Committee. During the conference, keynote speeches were held by Professor Hoda A. ElMaraghy, Dr. Johan Carlson, and Professor Detlef Zühlke. There were also two industrial presentations. One was titled “Digital Factory and Virtual Manufacturing at Volvo Cars”, and was presented by Dr. Dan Lämkuil. The other one was titled “Virtual Assembly used in the LOCOMACHS project” and was presented by Maria Weiland.

I would like to express my gratitude to the keynote speakers as well as to the International Scientific Committee for their great efforts in reviewing the papers and thereby ensure the quality of this conference. Furthermore, I would like to express my sincere gratitude to all the members in the organizing committee. Particular acknowledgements go to our valuable sponsors and supporters: GKN Aerospace Engine, IKEA, Rosemont Tank Radar, RD&T Technology, Sandvik Coromant, Scania, SAAB, VA Automotive, Volvo Cars Group, Volvo Trucks Corporation and Produktion2030.