Plenary I

Speaker：Prof. Henrik Christensen
Chair of Robotics and Executive Director of the Institute
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USA

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Title:

The Confluence of Robotics and Automation for Next Generation Manufacturing

Abstract:

In this presentation we will discuss how hard automation in many cases is getting replaced by flexible automation. The ideal factory is no longer a sequence of fixed processing stations,
but a swarm of heterogenous stationary and mobile manipulation systems that can be re-configured to produce one-off products in a system that is fully integrated from design to manufacturing. The integration of new sensors, mixed-human-robot interaction and cloud services offer an opportunity to rethink modern manufacturing.

Biography:

Henrik I Christensen is the KUKA Chair of Robotics and Executive Director of the Institute for Robotics and Intelligent Machines at Georgia Institute of Technology. He is also a distinguished professor of computer science with the school of interactive computing. Dr. Christensen studies robotics with an emphasis on a systems perspective. The research involves perception, estimation, planning and systems engineering. Dr. Christensen has published more than 300 contributions across computer vision, robotics and AI. He was the coordinator for the formulation of the US National Robotics Roadmap and serves on the board of RIA and RTC. He is a fellow of AAAS.