

(15:50-16:40) Smart Textile in Automobile Assembly.

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(Outline of lecture)

In the course of digitization, production systems are undergoing a major transformation. The focus is about gathering production data for IOT use cases, Assembly processes are still highly driven by manual tasks. Smart Textiles offer high potential for capturing data within the man-machine-interaction. Benefit of this data can be an improvement in process efficiency

As well as increase in quality. Particularly force values during assembly tasks are interesting. Current sensor technology is made for laboratory studies but for permanent usage in production it is still expensive and inflexible. Therefor the BMW group and ITA GmbH developed a cheap tactile sensor thumbing for permanent integration in the automotive production system.