A smart shop-floor monitoring system through Internet of Things and wireless sensor network

The advent of modern technologies such as Cyber-Physical Systems, Internet of Things (IoT), and big data analytics open new horizons towards the industrial digitalisation by enabling automated procedures and communication by means that were not attainable in the past. This transformation of manufacturing has a big significance in the economy of Europe as manufacturing accounts for more than 28% of the gross domestic product.

The contemporary production systems can be regarded as ecosystems that are composed of interconnected entities that refer to the resources, the employees, the customers, the supply chain partners and other stakeholders of the value chain. Aiming to contribute to the digitisation of modern industry, this master thesis presents a monitoring framework and the development of a data acquisition device for machinetools. The state-of-the-art analysis makes it evident that IoT requires interoperable solutions that can be integrated into systems from various vendors. Moreover, IoT can support the awareness on the actual condition of a production system and facilitate

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