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5G Technology in Smart Manufacturing

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Message from the Guest Editors

Communication systems are the backbone of the factory of the future. In this context, digitization and networking are taking on an increasingly important role for manufacturing companies to make their production processes more flexible and at the same time more robust, ultimately with the vision of a resilient factory.

5G has the potential to become an important factor because of the ability to wirelessly connect multiple assets in factories and at the same time guarantee them a determined quality of service (QoS). Ultra-reliable low latency communication (URLLC) is of particular importance in this context.

To further develop the 5G ecosystem, additional R&D efforts are required to make industrial 5G devices marketable and to validate their performance in corresponding use cases. Furthermore, the integration of 5G networks into the industrial LAN and the interaction with edge–cloud systems is of high importance. The coexistence of public and non-public 5G networks also needs to be investigated.

Therefore, this Special Issue covers essential aspects of current research topics on the use of 5G in production.

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Message from the Editor-in-Chief

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