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Intelligent Sensors Technologies for Industry 5.0 and Smart Manufacturing

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Message from the Guest Editor

In this domain of Industry 5.0, humans and machines work in an integrated. A more flexible and advanced manufacturing context is addressed by a combination of the strengths of humans and machines, leveraging automation and artificial intelligence to produce a highly productive manufacturing environment. High levels of productivity and efficiency can be achieved by combining the strengths of humans and machines within the context of effective data transfer and communication protocols. This integrative synergy between humans and machines allows the manufacturing processes to be more adaptable to suit the needs of production in the context of high levels of quality. The framework of Industry 5.0 requires effective data transfer, information flow, data conversion to knowledge over time, and assessment of production parameters with respect to continuing effectiveness and applicability. Intelligent data-driven sensors and controls thus have a significant role to play in Industry 5.0 as they will be the bearers of information from technical, economic, and procedural aspects, continually monitoring system effectiveness and improvement potential.



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Special Issue



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Message from the Editor-in-Chief

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