Data Quality and Big Data Analytics for Smart Manufacturing

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Message from the Guest Editors

Big data analytics, together with emerging technologies such as cyberphysical systems (CPS), the Internet of Things (IoT), and artificial intelligence (AI), are core elements of smart manufacturing (SM). However, due to severe data quality issues, manufacturing firms worldwide are facing substantial challenges and difficulties when developing, implementing, and utilizing big data and AI tools in their smart manufacturing initiatives. This phenomenon has become a major obstacle slowing down the progress of enterprise digital transformation in the Industry 4.0 era. This Special Issue provides a platform for researchers to share their latest research that investigates data quality issues in the SM context, as well as to propose and validate adequate technologies and solutions to deal with these data quality issues, and so ultimately facilitating the utilization of big data analytics and AI in smart manufacturing. We also welcome contributions and applied solutions using innovative algorithms, models, and methods to develop big data analytics and AI applications for smart factories.

Special Issue

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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