

Special Issue

Digital Twins Development and Deployment

Message from the Guest Editor

The technology and operation of assets are complex, but the adoption of IoT in and its use with OT platforms enable the use of 'digital twins' to manage, monitor, and maintain assets. The digital twin connects complex assets and their OT systems to an IT environment by capturing data to monitor performance, deterioration and failure, location and safety compliance, and remote monitoring systems for scheduling and asset utilization. Therefore, digital transformation demands that engineering technology (ET) be included in the IT/OT convergence process as the importance of integrating product design increases. For that purpose, digital twins must be complemented by other information to assess the overall condition of the whole fleet/system, including information from design and manufacturing, as this contains the physical knowledge of assets.

Guest Editor

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