



Equipment Engineering Ecosystem for Smart Manufacturing
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All the business environment and technical challenges surrounding IDM requires deep & fast changes in its manufacturing operation. With maturity of key ICT technology for Smart Manufacturing (IoT, Big Data & Analytics, and Cyber Physical Systems), Smart Manufacturing is becoming more realistic and can be the foundation of new manufacturing systems. In order to achieve manufacturing intelligence which is the goal of the smart manufacturing, collaboration with internal and external partners is the key, and same collaboration model can be applied to manufacturing systems as well. The equipment engineering systems such as Fault Detection & Classification, Advanced Process Control, Virtual Metrology and Chamber-to-Chamber Matching has become vital elements of manufacturing system and adopting big Data & analytics technology, it has been evolving and becomes more powerful tools to drive efficiency and quality improvement. This presentation will discuss what has been done and what needs to be improved to make manufacturing system smarter.

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