Proposal for Special Session at IEEE CASE 2022

Goal:

- Machine Learning (ML) has recently become a power-engine transforming various manufacturing research and applications. In the era of Smart Manufacturing and I4.0, the abundance of smart sensors and industrial internet of things has made manufacturing systems a data-rich environment. ML techniques play a significant role in uncovering fine-grained complex production patterns and offering timely decision support in a wide range of applications, to name a few, robotics and human-machine interaction, predictive maintenance, process optimization, task scheduling, quality improvement, and security. This special session aims to harvest the latest efforts in theoretical as well as experimental aspects of machine learning and their applications, particularly in digital and smart manufacturing.

Session Title: [Advances of Machine Learning for Smart Manufacturing]

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Contributions:


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