

Special Issue

Tacit knowledge models to support sustainable manufacturing processes according to industry 4.0 trends

Message from the Guest Editors

Robotics and mechatronics are multidisciplinary engineering areas combining complex tacit knowledge types difficult to identify, capture, store, reuse, share and maintain. As more complex mechatronics systems have been developed, there is a need of new mechatronics tacit knowledge models to support next-generation automation systems. Today, Industry 4.0 as a new industrial revolution is integrating intelligent components in a sustainable manufacturing domain providing competitive advantage to industry. This topic is focused on state-of-the-art research in advanced mechatronics tacit knowledge models exploring methods and tools to develop advanced and intelligent automation systems. Experimental investigation, analytical modeling, and numerical simulations implementing Industry 4.0 applications are of interest.

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