

Sessions spéciales — Conférence CIGI Qualita MOSIM 2023

Titre de la session	<p>Knowledge Engineering and Machine Learning for Products, Services, and Production: academic and industrial perspectives</p> <p>Ingénierie des connaissances et apprentissage pour les produits, les services et les systèmes de production : perspectives académiques et industrielles</p>
Description	<p>In many industrial contexts, information technologies provide real-time data on the current state. Historical data contain hidden knowledge about best practices and effective rules for problem solving. Domain experts detain implicit knowledge that are useful for decision-making. In general, these are three sources of knowledge that must be exploited in order to solve complex problems.</p> <p>On the one hand, Machine Learning (ML) is a powerful tool that transforms huge amounts of data into computational models that can drive intelligent decision-making. On the other hand, Knowledge Engineering (KE) is about capturing, retaining and re-using experts' knowledge for problem solving. An effective application of ML and KE allows to dynamically generate reliable solutions while decreasing the problem-solving related cognitive workload and time.</p> <p>This special session aims to bring together researchers from academia and industry on real industrial problems. It focuses on the application of KE and ML to product, service and production engineering. Some typical applications are product or service configuration, product-service system configuration, production line reconfiguration, complex system evaluation, and complex project management.</p>
Mots clés	<p>Knowledge Engineering, Machine Learning, Product, Service, Product-Service System, Production</p>
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