Special Issue

Knowledge Engineering for International Standardization

Message from the Guest Editors

The aim of standardization is to provide ways of specifying (requirements) and structuring given domains. Problems faced by SB (IEC, ISO, ITU) become major as the complexity of standards increase. Some TCs or SCs have set up WG for their terminology. It can be difficult to use standards across domains, in spite of some harmonization work, as for smart cities, IoT, smart grids, Industry 4.0, digital twin and smart manufacturing since they are often at the junction of separate disciplines. For this, an interdisciplinary approach can be beneficial. It is also important to consider work done by consortia (OPC, AAS, AutomationML, ECLASS, ..), widely used by industry, to check their consistency with existing standards. Semantic approaches, ontologies, KE/KR techniques are powerful tools to help write standards. However, they are rarely known to technical experts. On the other hand, specialists in KE are often far away from the world of standards. This Special Issue is designed to study the application of KR techniques to standardization, from a theoretical and practical point of view, and the benefits that can be expected: are smart standards still a dream or can they become reality?

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Deadline for manuscript submissions

closed (15 November 2023)

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Information

an Open Access Journal by MDPI

**Impact Factor 2.9
CiteScore 6.5**

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