Special Issue

Ontology-Driven Architectures and Applications of the Semantic Web

Message from the Guest Editors

This Special Issue focuses on theoretical and practical problems related to architectures and techniques, as well as the automatic generation of ontology-driven processes, looking at what we may consider to be new information sources, as well as tools for the realization of software applications that are capable of implementing them. Topics of interest include but are not limited to the following:

- Specification and design of formal and informal ontology representation schemes;
- Ontology-driven framework enhanced with logical rules' integration;
- Tools and environments to support ontology-based system development;
- Enhanced ontology-driven architecture involving emotional states' management;
- Domain modelling and analysis for the application of extra SW inferences;
- Ontology-based application innovative use cases;
- Ontology architectures including explanation capabilities;
- Ontology-based applications for process management and orchestration;
- Ontology-driven architecture for virtual sensor applications;
- Combining OWL reasoners with different types of logical inferences.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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