

## Editorial Preface

# Moving Semantic Web and Information Systems Research Forward: The Way Ahead

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The latest developments in computer science and information systems research prove the fast-changing context of doing research with high impact for our society. What is evident, is the radical shift from monolithic research to multidisciplinary, integrated research. Also, the convergence of data science, computer science, and telecommunications has a new artificial intelligence core component.

This is the challenging new era for the semantic web and information systems research, which in this the International Journal of Semantic Web and Information Systems, we are targeting. Starting from the first volume of the fifteenth issue, the legacy of IJSWIS is entering a new maturity phase. The main characteristics of this new era are summarized as follows:

- We promote multi-disciplinary research geared by sophisticated semantic web and artificial intelligence innovations
- We investigate the impact of technology, systems and applications to real world problems
- We honor the international technology transfer with focused benchmarks for the way that emerging and streamline technologies generate new social value
- We promote the discussion for the ethical, privacy and security issues of semantic web and information systems research
- We are looking forward for the unique value proposition of Semantic Web and Information Systems research to a number of new fascinating areas of computer science research including Big Data, Analytics, Internet of Things, Block Chain Technology, Virtual and Augmented Reality, 5G and Sensor Networks
- We investigate the new era of skills and competencies needed for the CS/IT/IS personnel through innovative knowledge and learning management approaches.
- We promote the international collaboration, by promoting an amazing international coverage related to Editorial Board Members and contributing authors. The last is a key strategy for the Editorial leadership. We need to promote research dissemination from all the continents of the world offering equal and balanced opportunities to researchers from developing countries as well.
- We see review process and a continuous improvement process for research skills, capabilities and outcomes
- We set the core principles of COPE, for ethos in publication as top priority
- We honor the volunteer service, and contributions of our reviewers and editorial board members. They do a great work which is valued and appreciated. I want personally to thank all of them
- We serve our academic community with enthusiasm and dedication in an era where worldwide academic evaluations and quantitative criteria sometime are missing the big forest of research contribution. We have to make a better world for all through our research.

I am really honored and proud to lead the Editorial Board of IJSWIS together with great scholars from all over the world. I want to apologize to our authors for some delays in the review process during the period 2015-2018.

The key objectives for our new publication calendar are summarized as follows:

1. Full coverage of the recent developments in Semantic Web and Information Systems Research including artificial intelligence, open and linked data, interoperability but also opening a scientific discussion for the impact of new technologies including virtual reality, BlockChain, machine learning, etc.
2. Provision of Strategic perspective of Information systems with emphasis in sectoral domains and areas like smart cities research, medical informatics, data science for social good, social engineering, cryptocurrencies, etc.
3. Special interest for the academic and teaching aspects for semantic web research promoting research related to active learning and experiential learning related to semantic web education
4. Timely review and publication. For this purpose, we have to apply a 60% editorial office reject rate to save resources for the review of the remaining papers.

I am really happy to share with you the latest top-quality research published in IJSWIS, in this inaugural issue for 2019.

1. OnGIS - Geospatial data integration using semantic technologies and query containment
2. Automatic construction of OWL ontologies from petri nets
3. Based on the document-link and time-clue relationships between blog posts to improve the performance of Google blog search
4. A preventive approach for consistent OWL 2 DL Ontology Versions
5. Ontology-based modeling of effect-based knowledge in disaster response
6. Bootstrapping of semantic relation extraction for a morphologically rich language: semi-supervised learning of semantic relations

Last but not least I want to invite researchers from all over the world to be part of our review board. IJSWIS is an open forum for all the enthusiastic members of the global Semantic Web and Information Systems Research community.

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