

FIRST CALL FOR PAPERS

Workshop on ASP technologies for Querying large scale multisource heterogeneous web information

WASPIQ-2017

<http://waspiq2017.lsis.org>

The international workshop on ASP technologies for Querying large scale multisource heterogeneous web information is affiliated with the 30th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2017) <http://www.cril.univ-artois.fr/ieaaie2017/> and will take place in Arras, France between June 27th and June 30th, 2017

Workshop description The aim of this workshop is to bridge knowledge representation and reasoning in artificial intelligence and web of knowledge communities in order to encourage the emergence of new solutions for reasoning with lightweight ontologies. The workshop focuses on languages and techniques that allow for:

- Query answering while taking ontologies into account.
- Non monotonic reasoning for inconsistency handling and exception handling and expressing default negations in ontologies.

Concerning the first point, a challenging issue is how to adapt or extend Answer Set Programming to represent ontological knowledge. In particular, can (a fragment of) ASP cover lightweight ontological languages while keeping decidability and efficiency?

Concerning the second point, a challenging issue is how to extend lightweight ontological languages with non-monotonic features, while keeping a good computational complexity. In particular,

- How to embed exceptions-based and inconsistency tolerant-based reasoning in a tractable ontological language?
- How to integrate uncertainty information in lightweight ontological languages?

- How to define merging operations where both inputs and outputs are in lightweight ontological languages?

Topics Topics of interest include but are not limited to:

- Reasoning with lightweight ontologies
- Reasoning with tractable fragments of OWL languages
- Belief change & tractable Description logics
- Reasoning on the web of data
- Ontology-based data-access
- Ontological query answering
- Belief change & ASP
- Datalog \pm & existential rules
- ASP & Description logics
- ASP & Uncertainty
- First order ASP

The workshop is expected to bring together people from different research communities that are actively pursuing this line of research.

Paper submission The authors should submit their paper via EasyChair:
<https://easychair.org/conferences/?conf=waspiq2017>

We expect submissions of both mature and preliminary works. Long papers will not exceed 8 pages and short papers will not exceed 4 pages in pdf formatted using the Springer-Verlag style according to the instructions:

<http://www.springer.de/comp/lncs/authors.html>

In both cases, all papers will be peer-reviewed.

Important dates

- Paper submission Extended deadline: April 15th, 2017
- Notification of acceptance: May 2nd, 2017
- Deadline for final camera ready copy: May 20th, 2017
- workshop: Between June 27th-june 30th, 2017

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