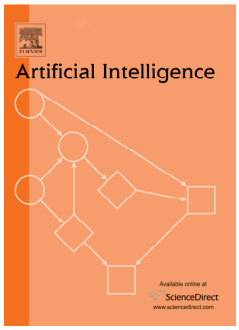
Artificial Intelligence, Wikipedia and Semi-Structured Resources



Important Dates

Submission deadline: October 31, 2010

First-round reviews due: January 31, 2011

Revised versions due: May 30, 2011

Second-round reviews due: June 30, 2011

Final versions due: July 31, 2011

Special issue publication: Fall 2011

Submission Information

Please follow the submission instructions available from the Artificial Intelligence Journal webpage[1] under `Submit Article'.

Contact

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Artificial Intelligence Journal Special Issue

Guest Editors: Eduard Hovy, Roberto Navigli, Simone Paolo Ponzetto

This special issue aims to collect **state-of-the-art contributions to the development and use of hybrid (structured, semi-structured, and unstructured) resources in AI**. These include, but are not limited to, semi-structured encyclopedic resources such as **Wikipedia** (and related projects such as **Wiktionary**), user-generated answer repositories such as **Wiki** and **Yahoo! Answers**, and collaborative tagging efforts on social media platforms such as **Flickr** and **Blogger**. Hybrid knowledge resources such as Wikipedia enable the development of methods for extracting, bootstrapping and integrating fully structured, machine-readable knowledge from both unstructured and semi-structured origins. Such induced wide-coverage knowledge is expected to prove beneficial for a variety of AI tasks, as well as the Semantic Web. We are particularly interested in **articles showing the benefits of using such resources and AI techniques synergistically**. We thus welcome contributions dealing with applications of general AI methodologies for the construction and validation of large-scale machine-readable knowledge repositories and the impact of automatically-extracted knowledge for AI applications. We also encourage contributors to investigate the nature and impact of the structured and unstructured parts of the resource (e.g. information redundancy, overlaps, connections, etc.).

Topics of interest include, but are not limited to:

- Using Wikipedia and other semi-structured content in AI tasks. Examples include Word Sense Disambiguation, Information Retrieval, Information Extraction, Question Answering, etc.
- Automatic transformation of hybrid knowledge repositories into fully-structured resources
- Extraction and formalization of information from hybrid resources into knowledge bases and databases
- Automatic integration of semi-structured knowledge repositories with structured resources (e.g. Cyc, WordNet, SUMO)
- Enriching encyclopedic and semi-structured entries with new types of structural information
- Wikipedia and the Semantic Web
- Automatic extraction and use of cross-lingual information, and other multilingual aspects of Wikipedias and Wiktionaries in AI
- Knowledge acquisition from collaborative user contributions
- AI methods for improving the quality of (semi-)structured user contributions

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