AI and the Web

http://www.cs.umbc.edu/aaai06/

a special track of technical conference papers at AAAI-06

21st National Conference on Artificial Intelligence

Seaport Hotel and World Trade Center, Boston, 16-20 July 2006

http://aaai.org/Conferences/National/2006/

The web has quickly grown from a modest hypertext system of interest to computer researchers to a ubiquitous information system including virtually all of human knowledge. Today's Web provides ready access to not only text, images, and audio files, but also to structured and semi-structured information, services and people. It offers an open, decentralized (and uncontrollable!) environment in which anyone can publish information and services coupled with powerful search engines and agents to find and rank results. All of this is ubiquitously available from wired, wireless and mobile devices. Oh, and did we mention that it's free?

The result is an environment enormously useful to people for research, learning, commerce, socializing, communication and entertainment. We have just begun to explore how this vast amount of machine accessible knowledge can be exploited and used by machines -- to better serve human needs as well as to discover new knowledge.

The special track on *AI and the Web* invites technical papers on the use of AI techniques, systems and concepts involving the Web. We are especially interested in receiving papers in two active research areas: (i) using text and language analysis to interpret and understand natural language text found on the web and (ii) developing and exploiting "Semantic Web" languages and systems that explicitly encode knowledge using languages such as RDF and OWL. Innovative papers in other areas describing research involving both AI and the Web are definitely encouraged also. The AAAI-06 track on AI and the Web welcomes submissions on all topics relevant to the track, including the following.

Semantic Web

- Information integration
- New/better/different KR languages for the Web (e.g., RuleML)
- Semantic Web policy languages
- Semantic Web and agents
- Semantic web in mobile and pervasive computing
- Semantic Web ontologies
- Semantic Web services
- Social aspects of web semantics
- Tags and folksonomies
- Proof, trust and provenance for web information
- Automatic annotation of text
- Applications

NLP and the Web

- Cross-language IR for the web
- Enhancing IR and web search
- Information extraction on the web
- Knowledge acquisition from the Web
- NLP for automating markup
- Machine translation for and using the Web
- Opinion & mood extraction
- Question answering on the web
- Text classification on the Web
- Text summarization
- Applications

Other AI&Web Topics

- AI and web-based ecommerce
- AI for P2P & GRID environments
- Intelligent information retrieval
- Intelligent user interfaces for Web
- Multi-agent systems on the Web
- Ontologies for the Web
- Mining weblogs, query logs, blogs
- Recognizing web spam
- Recommendation systems
- Social networking
- Web community identification
- Trend spotting
- Web link-analysis & graph mining
- Graph based methods for analyzing Web information
- Web personalization/user modeling

Abstracts must be submitted by 16 February and full papers by 21 February, 2006. Prospective submitters unsure if their paper is relevant to this track may send queries to aiweb06@cs.umbc.edu. Papers for this special track should be prepared and submitted following the general technical conference paper submission guidelines -- see the full call for papers for more information. Submitted papers will be reviewed by qualified reviewers drawn from a special track committee as well as the general program committee, with the final selections determined by the track co-chairs in conjunction with the AAAI-06 co-chairs. Submissions to this special track deemed not to be relevant may be considered for review for the general technical papers track at the discretion of the chairs.

Co-chairs: Tim Finin (UMBC) and Dragomir Radev (University of Michigan)