In cooperation with the:

Association for the Advancement of Artificial Intelligence

Special Track:
Semantic, Logics and Information Extraction in AI (AISemLIE)

May 21 – 23, 2014
Pensacola Beach, Florida, USA

Paper submission deadline: November 18, 2013.
Notifications: January 20, 2014.

Co-chairs:
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Call for Papers

What is “Semantic, Logics and Information Extraction in AI”?

Traditionally, the study of knowledge processing and language processing has been performed by computer scientists, specializing in the application of computers to the processing of a natural language. Today, people working in knowledge processing and particularly in language processing often work as members of interdisciplinary teams, including linguists (specifically trained in linguistics), language experts (persons with some level of ability in the languages relevant to a given project), and computer scientists. In general, computational linguistics draws upon the involvement of linguists, computer scientists, experts in artificial intelligence, mathematicians, logicians, cognitive scientists, cognitive psychologists, psycholinguists, anthropologists and neuroscientists, among others.

Information extraction as part of knowledge processes and language processing, as well, must become more connected to the cognitive sciences through the development of cognitive semantic theories. Information extraction as part of knowledge processing is connected to artificial intelligence through the development of methods and algorithms for all aspects of language analysis and their computer implementation. We can see language analysis divided into two parts: theoretical analysis and
application. The theoretical aspect includes standard areas studied in linguistics: semantics, syntax, and morphology. Semantic theories guide the development of syntactic theories and morphology. Semantic theories can be based on some specific features of computation, but at the present stage of research, there is a gap between linguistic analysis and computer applications in two senses: there are many computer applications without linguistic theoretical support and, conversely, there are a number of theoretical methods with no computer implementation. Semantic as part of computational linguistic is related to the logic and to logics. If we accept the hypothesis that there is a logic of language and logics of natural languages, the upstream of each algorithm or method representing the basis of an AI system of language analysis is a logic and a semantic. Generally, the knowledge processing and particularly, the information extraction must take into account this epistemological chain for to lead to effective, robust and reliable systems.

What is the GOAL of the track?

This track is intended to present works ranking from logical and mathematical models in syntax and semantics (logic of objects, topological theories of time and space etc.) as foundations of the design and analysis to knowledge processing and natural language processing systems and especially to information extraction.

Who might be interested?

Special tracks, held in parallel with the general conference, are an integral part of the conference. They provide researchers in focused areas the opportunity to meet and present their work, and offer a forum for interaction among the broader community of artificial intelligence researchers. Topics of interest are in all areas related to artificial intelligence.

What kind of studies will be of interest?

Papers and contributions are encouraged for any work relating to Semantic, Logics and Information Extraction in AI. Topics of interest may include (but are in no way limited to):
1. philosophy of language – new developments,
2. cognitive semantics,
3. logics of language,
4. language modeling,
5. computational linguistics (lexicology; morphology; syntax; semantics).
6. information extraction.
7. domain ontologies, linguistic ontologies.
8. knowledge processing.

Note: We invite original papers (i.e. work not previously submitted, in submission, or to be submitted to another conference during the reviewing process).
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<tr>
<th>Track Invited Speaker</th>
<th>Professor Maryvonne Abraham, Institut TELECOM, TELECOM-Bretagne, France, <a href="mailto:Maryvonne.Abraham@enst-bretagne.fr">Maryvonne.Abraham@enst-bretagne.fr</a></th>
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<td>Submission Guidelines</td>
<td>Interested authors should format their papers according to AAAI formatting guidelines. The papers should be original work (i.e., not submitted, in submission, or submitted to another conference while in review). Papers should not exceed 6 pages (4 pages for a poster) and are due by November 18, 2013. For FLAIRS-27, the 2014 conference, the reviewing is a double blind process. Fake author names and affiliations must be used on submitted papers to provide double-blind reviewing. Papers must be submitted as PDF through the EasyChair conference system, which can be accessed through the main conference web site (<a href="http://www.flairs-27.info/">http://www.flairs-27.info/</a>). Note: do not use a fake name for your EasyChair login - your EasyChair account information is hidden from reviewers. Authors should indicate the [your track name] special track for submissions. The proceedings of FLAIRS will be published by the AAAI. Authors of accepted papers will be required to sign a form transferring copyright of their contribution to AAAI. FLAIRS requires that there be at least one full author registration per paper.</td>
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| Important Dates       | November 19, 2012 Paper submission deadline  
|                       | January 21, 2013 Paper acceptance notification  
|                       | February 11, 2013 Second submission (Abstract only)  
|                       | February 17, 2013 Abstract only notification  
|                       | February 25, 2013 Camera ready version due |
| Conference Proceedings| Papers will be refereed and all accepted papers will appear in the conference proceedings, which will be published by AAAI Press. |
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Further Information

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Conference Chair:

G. Michael Youngblood, PARC, a Xerox company, USA

Co-Chairs:

William (Bill) Eberle, Tennessee Technological University, USA
Chutima Boonthum-Denecke, Hampton University, USA

Special Tracks Coordinator:
Conference Web Sites

Paper submission site: follow the link for submissions at http://www.flairs-27.info/
Conference web page: http://www.flairs-27.info/
Florida AI Research Society (FLAIRS): http://www.flairs.com