Semantic, Logics, Information Extraction and AI (SLIE)

Special Track at FLAIRS-29, Key Largo, Florida, USA

Chairs:
Ismail Biskri (Ismail.Biskri@uqtr.ca)
Anca Pascu (Anca.Pascu@univ-brest.fr)
Florence Lepriol (florence.le_priol@paris-sorbonne.fr)
Rim Faiz (Rim.Faiz@ihec.rnu.tn)

In cooperation with the:

Association for the Advancement of Artificial Intelligence

Call for Papers

What is "Semantic, Logics, Information Extraction and AI"?

Traditionally, the study of information extraction, knowledge processing and language processing is performed by computer scientists, specializing in the application of computers to the processing of a natural language and large structured or semi-structured data-bases.

Today, people working in information extraction, 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), statisticians, 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 processing 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 methods as semantics, syntax, and morphology or numerical methods as those used in information retrieval or text-mining. Semantic theories guide the development of lexical theories, 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 and language processing is very 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 a AI system of language analysis is a logic and a semantic. The downstream of semantic analysis can be found in translation, automatic text generation and even automatic annotation of texts or information retrieval. 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, mathematical, and statistical models in syntax and semantics (logic of objects, topological theories of time and space, lexical associations, 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.
9. translation
10. text-mining

Note: We invite **original** papers (i.e. work not previously submitted, in submission, or to be submitted to another conference during the reviewing process).

Invited Speakers : To be announced

Submission Guidelines

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 16, 2015. For FLAIRS-29, the 2016 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 (http://www.flairs-29.info/). 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**.

Please, check the website http://www.flairs-29.info/ for further information.

Conference Proceedings

Papers will be refereed and all accepted papers will appear in the conference proceedings, which will be published by AAAI Press.

Organizing Committee

Ismail Biskri, Université du Québec à Trois-Rivières (Ismail.Biskri@uqtr.ca)
Anca Pascu, Université de Brest, France (Anca.Pascu@univ-brest.fr)
Florence LePriol, Université Paris-Sorbonne, France (florence.le_priol@paris-sorbonne.fr)
Rim Faiz, IHEC, Tunis (Rim.Faiz@ihec.rnu.tn)

Program Committee

Maryvonne Abraham, Institut TELECOM, TELECOM-Bretagne, France, Maryvonne.Abraham@enst-bretagne.fr
Iana Anatassova, University Concordia, Canada, iana.atanassova@gmail.com
Marc Bertin, Université du Québec à Montréal, Canada, bertin.marc@gmail.com
Jean-Yves Beziau, Brazilian Research Council, jean-yves.beziau@logica-universalis.org
Ismail Biskri (co-chair), Universite de Québec à Trois Rivières, Canada, Ismail_Biskri@uqtr.ca
Jean-Pierre Desclés, Université de Paris-Sorbonne, France, Jean-pierre.Descles@paris-sorbonne.fr

Al Moatasem Alrahabi / Université Paris-Sorbonne Abu-Dhabi, (mailto:almoatasem.alrahabi@psuad.ac.ae)
Rim Faiz (co-chair), IHEC de Carthage, Université du 7 novembre à Carthage, Tunisia, Rim.Faiz@ihec.rnu.tn
Vera Goodacre, George Mason University, USA, VeraGooda@juno.com
Eva Hajiova, Charles University, Prague, Czech Republic, hajicova@ufal.mff.cuni.cz
Ankit Jain, Google, mailto:ankit.jain@gmail.com
Adel Jebali, University Concordia, Montreal, Canada, mailto:adel.jebali@concordia.ca
Christophe Jouis, Université Paris 3, LIP6 – CNRS, christophe.jouis@lip6.fr
Vladislav Kubon, University Charles University in Prague, Czech Republic (mailto:vk@ufal.mff.cuni.cz)
Florence Le Priol (co-chair), Université de Paris-Sorbonne, France, florence.le_priol@paris-sorbonne.fr
Jean-Guy Meunier, Université de Québec à Montréal,Canada, meunier.jean-guy@uqam.ca
Ghassan Mourad, Université de Beyrouth, Lebanon, Ghassan.Mourad@paris-sorbonne.fr
Widad Mustafa El Hadi Université Lille, France (widad.mustafa@univ-lille3.fr)
Anca Pascu (co-chair), Université de Bretagne Occidentale, Brest, France, Anca.Pascu@univ-brest.fr
Fatiha Sadat, Université du Québec à Montréal, Montréal, Canada (sadat.fatiha@uqam.ca)

Further Information	Questions regarding the SLIE Special Track should be addressed to the **track co-chairs**: Ismail Biskri, Université du Québec à Trois-Rivières (Ismail.Biskri@uqtr.ca) Anca Pascu, Université de Brest, France (Anca.Pascu@univ-brest.fr) Florence LePriol, Université Paris-Sorbonne, France (florence.le_priol@paris-sorbonne.fr) Rim Faiz, IHEC, Tunis (Rim.Faiz@ihec.rnu.tn) **Conference Chair**: William (Bill) Eberle, Tennessee Technological University, USA (WEberle@tntech.edu) **Program Co-Chairs:** Zdravko Markov, Central Connecticut State University, USA (markovz@ccsu.edu) Ingrid Russell, University of Hartford, USA (irussell@hartford.edu) **Special Tracks Coordinator:** Vasile Rus, The University of Memphis, USA (vrus@memphis.edu)
Conference Web Sites	Paper submission site: follow the link for submissions at http://www.flairs-29.info/ FLAIRS-29 conference web page: http://www.flairs-29.info/ Florida AI Research Society (FLAIRS): http://www.flairs.com