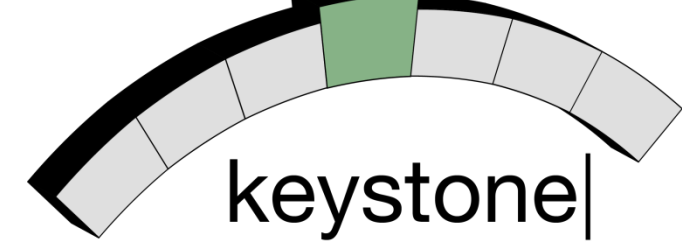


Belgrade Meeting

WP3 Session

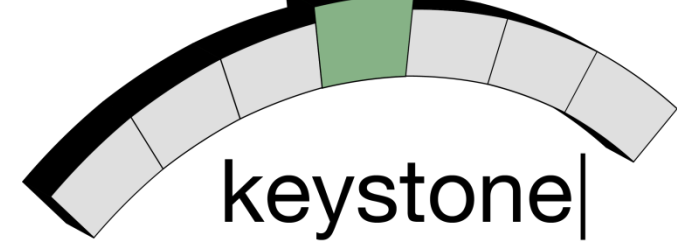
Omar Boucelma, Manolis Wallace



WP3 User Interaction

This WG investigates issues related to the semantic disambiguation of the queries based on the context and on the keyword annotations with respect to some reference ontologies, the development of languages for keyword searching and the use of users' feedbacks for improving results.

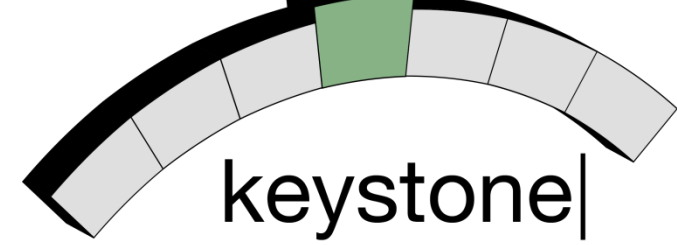
Moreover, the WG studies techniques for identifying the "scope" of a keyword query, i.e. determining what are the data source elements to be returned to the user and in which form (e.g., in a graphical way).



Call for Contributions

- 15 papers have been collected
- Papers accessible at

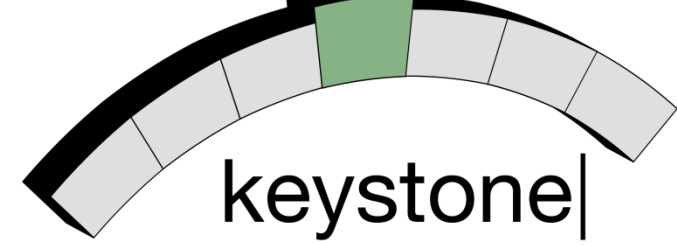
<http://bit.ly/2IBsNgR>



Contributions (1/2)

• IR/NLP

- Natural language disambiguation
- (named) entity recognition
- Keyword query cleaning
- Semantic relatedness
- Exploratory Search

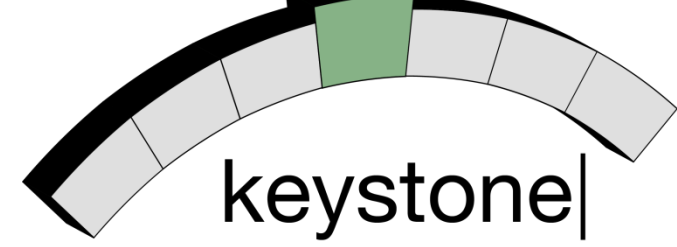


Contributions (2/2)

- DB
 - Keyword search over Relational Data / Linked Data
 - Exemplar query
 - Query "augmentation"
- ML / IE
 - Query disambiguation
 - Document annotation

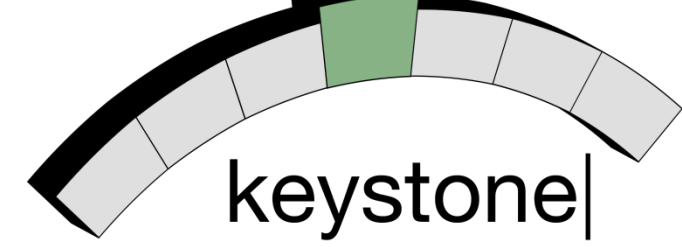
Contributions / State of the Art

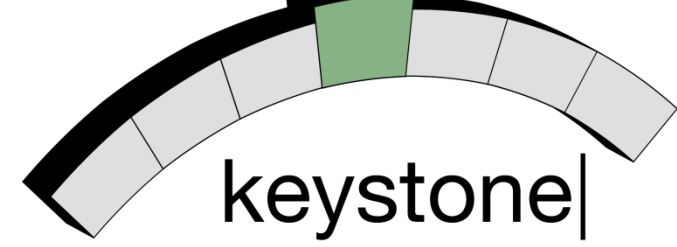
- Help. We need you!



Open Issues / Challenges

- Help needed again!





Call for Contributions

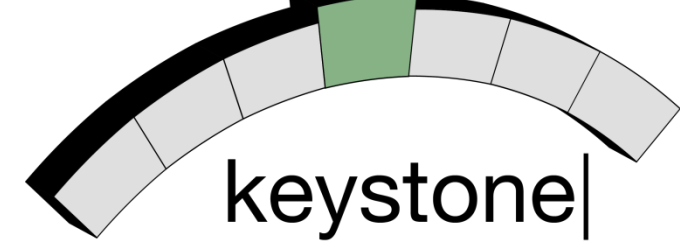
- 15 papers have been collected
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<http://bit.ly/2IBsNgR>

WG3 member	paper	reasoning	Contribution field	Open Issues
Sergio Ilarri	María del Carmen Rodríguez-Hernández, Sergio Ilarri, Raquel Trillo-Lado, Francesco Guerra, "Towards Keyword-based Pull Recommendation Systems", 18th International Conference on Enterprise Information Systems (ICEIS 2016), Rome (Italy), SCITEPRESS (Science, Technology Publications, Lda.), ISBN 978-989-758-187-8, volume 1, pp. 207-214, April 2016. (DOI: 10.5220/0005865402070214)	-It is a joint paper and an outcome of Keystone. -In this paper, we describe and evaluate two possible solutions to the problem of identification of the type of item (e.g., music, movie, book, etc.) that the user specifies in a pull-based recommendation (i.e., recommendation about certain types of items that are explicitly requested by the user), based on user keywords.	IR - Recommender systems	
Mariia Golovianko	"TB-Structure: Collective Intelligence for Exploratory Keyword Search" prepared for the 2nd Keystone Conference in collaboration with Vagan Terziyan and Michael Cochez from University of Jyvaskyla	In this paper we present a new collaborative filtering technique for an exploratory search which is used to predict implicit seeker's intents at an early stage of the search process by uncovering behavioral patterns within large datasets of preserved collective search experience.	SemWeb - Exploratory search	
Manolis Wallace	P. Alexopoulos and M. Wallace, Creating Domain-Specific Semantic Lexicons for Aspect-Based Sentiment Analysis, Proceedings of the 10th International Workshop on Semantic and Social Media Adaptation and Personalization, pp. 7-12, November 5-6, 2015, Trento, Italy	It tackles the disambiguation of user sentiment. The paper is the result of a cooperation of researchers from Spain and Greece	NLP - Query / Entity disambiguation	Recall / complex terms
...	S. Bergamaschi, F. Guerra, M. Interlandi, R. Trillo-Lado and Y. Velezrakis "Combining User and Database Perspective for	The goal of this paper was to discover the semantics of the keywords used in a user keyword query by	DB - Keyword search over RD	

Interaction with other WPs

- Separation of concerns
 - Not usually clear



Wrap Up

- What's next

