



To be sent by the applicant as attachment by e-mail together with all the documents he/she would like to submit to support the application (full CV, detailed work plan, motivation, etc.) to the:

- * Host (who will send his agreement to host the applicant to the MC Chair)
- * MC Chair for evaluation and approval

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COST STSM Reference Number: [COST-STSM-IC1302-24857](#)

Period: 2015-02-17 00:00:00 to 2015-03-02 00:00:00

COST Action: IC1302

STSM type: Regular (from France to Spain)

STSM Applicant: Pr Bogdan Cautis, University of Paris-Sud -- Inria, Orsay (FR) , bogdan.cautis@u-psud.fr
STSM Topic: Query Recommendation and As-You-Type Search in Social Media
Host: Hossein Vahabi, Yahoo Labs Barcelona, Barcelona (ES), puya@yahoo-inc.com

Budget Request: Year-2015

Travel	450 Euro
Subsistence (hotel/meals)	1400 Euro
Total	1850 Euro

Short CV:

date of birth: 26/09/1979

higher education degrees:

Habilitation to Supervise Research (HdR), March 2012
 University Pierre et Marie Curie, Paris
 Dissertation: Web Data Management: Weaving Theory and Applications

Ph.D. in Computer Science, October 2004 - September 2007
 INRIA & University of Paris South, Orsay
 Dissertation: Signing and Reasoning about Tree Updates
 Research advisors: Serge Abiteboul (INRIA) and Tova Milo (University of Tel Aviv)

M.Sc. in Computer Science – D.E.A. Algorithmique (Logics, Verification), October 2003 - September 2004

Work Plan Summary:

Prof. Cautis and Dr. Vahabi of Yahoo Research have collaborated in the past in the area of search in social media. Their complementary research background led to a recently co-developed research agenda on devising models and algorithms searching large-scale social Web data, with a focus on query recommendation/suggestion and as-you-type retrieval algorithms.

While progress has been made in recent years to support social-aware query paradigms, more remains to be done in order to address information needs in real applications. In particular, providing the most accurate answers or query suggestions, while the user is typing her query, almost instantaneously, can be extremely beneficial, in order to enhance the user experience and guide the retrieval process.

This as-you-type search problem is challenging, as answers pertain to a query interpretation by which the last term in the query sequence can match keyword prefixes. Moreover, as it is necessary to serve fast the top-k results matching the query in





its current form, we need solutions with an anytime behavior: answers, albeit approximate, must be ready to be outputted after any time lapse.

The query suggestion problem is also challenging, as we must leverage the user interactions and social links, as well as their query activity, in order to provide the most accurate recommendations for query completion.

We intend to support these research goals by extensive experiments for various applications and scenarios of searching in micro-blogging applications (Twitter, Tumblr), in order to show the effectiveness of the proposed algorithmic solutions in search over social media.

I request the approval of a COST Short Term Scientific Mission as described above

Applicant

Pr Bogdan Cautis

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