Оглас за работа на научно-истражувачки проект MAESTRA (Learning from Massive, Incompletely annotated, and Structured Data) финансиран од Европската комисија од програмата ICT-2013.9.5: FET-Open Xtrack

За потребите на научно-истражувачкиот проект MAESTRA (Learning from Massive, Incompletely annotated, and Structured Data) финансиран од Европската комисија од програмата ICT-2013.9.5: FET-Open Xtrack се објавува конкурс за работа и се поканууваат сите дипломирани или магистрирани студенти на ФИНКИ да конкурираат. Потенцијалните кандидати треба да се пријават кај доц. д-р Ивица Димитровски (ivica.dimitrovski@finki.ukim.mk) или доц. д-р Ѓорѓи Маџаров (gjorgji.madjarov@finki.ukim.mk) со назнака „Конкурс за работа – MAESTRA project“.

Детали за проектот:

Партнери:

Jozef Stefan Institute – JSI, Department of Knowledge Technologies, Jamova cesta 39, 1000 Ljubljana, Slovenia

University "Ss. Cyril and Methodius" – UKIM, Faculty of Computer Science and Engineering, Rugjer Boshkovikj 16, 1000 Skopje, Macedonia

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Rudjer Boskovic Institute – RBI, Computational Biology and Bioinformatics Group, Bijenička cesta 54, 10000 Zagreb, Croatia

INESC Technology and Science - INESC TEC, Associated Laboratory of Institute for Systems and Computer Engineering, Rua Dr. Roberto Frias, 378 4200 - 465 Porto, Portugal

Апстракт:

The proposed project will develop predictive modelling methods capable of simultaneously addressing:

(a) Structured data as input or output of the prediction process,

(b) Very large/massive datasets, with many examples and/or many input/output dimensions, where data may be streaming at high rates,

(c) Incompletely/partially labelled data, and

(d) Data placed in a spatio-temporal or network context.

In the most complex case, the methods would be able to address massive sets of network data incompletely labelled with structured outputs. We will develop the foundations (basic concepts and notions) for and the methodology (design and implementation of algorithms) of such approaches. We will demonstrate the potential and utility of the methods on showcase problems from a diverse set of application areas (molecular biology, sensor networks, multimedia, and social networks). Some of these applications, such as relating the composition of microbiota to human health and the design of social media aggregators, have the potential of transformational impact on important aspects of society, such as personalized medicine and social media.