



سخنرانی علمی

پژوهشگاه دانش‌های بنیادی
پژوهشکده علوم کامپیوتر

A Graph-based Model for Multimodal Information Retrieval

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Abstract

Nowadays, we have a large number of information sources from different modalities—text, images, audio, video and more. However, information objects are not isolated anymore. They are frequently connected via metadata, semantic links, etc. This leads to various challenges in graph-based Information Retrieval (IR). This talk is concerned with how much such a graph model helps reaching relevant information objects, especially from different modalities. A framework is presented in which different features and relations between information objects are experimented to improve recall. I will present this model, briefly describe some of the experiments, and present its applications in real world challenges.

Biography

Serwah Sabetghadam joined Advanced Analytics and AI group of A1 Telekom Austria in 2017. During the last two years, she has been involved as Data Engineer in design and development of big data projects. She received her Ph.D. in Computer Science in 2017 from Vienna University of Technology (TU Wien), under the supervision of Andreas Rauber and co-supervision of Mihai Lupu. She worked as free researcher for couple of months after graduation in IFS group of TU Wien. She received her MSc in Computer architecture from Shahid Beheshti University, and her BSc in Software Engineering from Tehran University. Her research interests range from (Multimodal) Information Retrieval, Graph-based search to Crowdsourcing and Big Data Analysis.

زمان: دوشنبه ۹۸/۷/۸ - ساعت ۱۵

مکان: فرمانیه - خیابان شهید لواسانی - جنب برج کوه نور - نبش خیابان فربین - پژوهشگاه دانش‌های بنیادی - طبقه دوم - کلاس C

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