



MASTER'S THESIS DESCRIPTION

Student:	Bc. Vít Novotný
Programme:	Applied Informatics
Field of Study:	Applied Informatics
Specialization:	With no specialization
Field guarantor:	prof. RNDr. Jiří Barnat, Ph.D. (AP)
Thesis supervisor:	doc. RNDr. Petr Sojka, Ph.D.
Consultant:	RNDr. Radim Řehůřek, Ph.D.
Department:	Department of Computer Graphics and Design
Title of the thesis/dissertation:	Vektorové reprezentace ve vyhledávání znalostí
Title of the thesis in English:	Vector Space Representations in Information Retrieval
Description:	<p>The student will attend the ACL 2017 conference. In response to the results presented at the conference, he/she will carry out a series of experiments in the field of information retrieval (IR).</p> <p>The student will review the state of the art in vector representations of both text and multimedia. In the experiments, he/she will evaluate the performance of both naive histogram-based models and state-of-the-art neural network architectures. He/she will make use of public datasets where available.</p>
Literature:	<p>MANNING, Christopher D., Prabhakar RAGHAVAN and Hinrich SCHÜTZE. <i>Introduction to information retrieval</i>. 1st pub. Cambridge: Cambridge University Press, 2008. xxi, 482. ISBN 9780521865715.</p> <p>ZEZULA, Pavel. <i>Similarity search : the metric space approach</i>. New York, NY: Springer, 2006. xvi, 220. ISBN 0387291466.</p> <p>Tomáš Mikolov, et al. <i>Efficient estimation of word representations in vector space</i>. arXiv preprint arXiv:1301.3781, 2013.</p>