

**Name:**

MSc. Peter Kál



**Finished degree:**

second, master

**Final thesis:**

Information Extraction from Structured Web Sources

**Abstract:**

Internet nowadays provides almost unlimited amount of information. Due to their volume and content, there is a need for automated approaches of detection and extraction of relevant information. In this thesis we propose a set of algorithms, which are used to find information and their storage in a machine-readable form for future processing. To detect semantic of web pages differential method is used, which produces page annotations. Practical application of proposed algorithms is validated by the implementation of the extraction tool. The proposed tool is designed primarily for work over the product pages of online catalogs, using common structure. In the end the functionality of the proposed solution is validated by set of standard tests. Obtained results provide place for comparison with existing solutions.

**Name:**

MSc. Mária Palušáková



**Finished degree:**

second, master

**Final Thesis:**

Modeling RNA Sequences Using Stochastic Models

**Abstract:**

This paper acquaints the reader with ways of modeling the secondary structure of RNA sequences. It shows an algorithm generating the RNA sequence using the covariance model. The next section describes the algorithm, that is used to determine the likelihood of generating sequence using stochastic grammars in Chomsky normal form and its use in determining if the RNA sequence belongs to the RNA family, it suggests improvement of this algorithm and compares these two algorithms with each other.

