

Semi-automatic tools for content analysis of mathematical literature

Ulf Schöneberg

zbMATH - FIZ Karlsruhe, Germany

ulf@zentralblatt-math.org

The talk is based on the joint work with Wolfram Sperber

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Content analysis of mathematical publications is useful and important task for the scientific information service zbMATH.

We adjusted well established methods of Natural Language Processing (NLP) for the special needs of mathematics in particular for handling mathematical formulae. We present a mathematics-aware part of speech tagger and give a short overview about our adaptation of NLP methods for mathematical publications. We show the use of the tools developed for key phrase extraction and classification in the database zbMATH.