TU Clausthal

Kolloquium zur Masterarbeit

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„Link Prediction and Detection of Similarities in Networks Within Graphs: State of the Art Using a Citation Dataset "

Data is usually used to analyse systems and make decisions in organizations and businesses. In the context of this work, methods for link prediction and similarity detection in scientific publications are developed. The data used to implement the link prediction and the similarity detection are collected from sources dedicated to academic research publications. These extracted data are stored in a graph database and further used for purposes such as collaboration prediction between authors and a search engine tool for similar articles. Various machine learning techniques are used and their results are evaluated. For our purpose, suitable feature vectors and corresponding training data are created. For our experiments, the logistic regression provides a precision of 0:82 and a recall of 0:92. Finally, we used the K-nearest neighbour algorithm to find and sort the most similar scientific articles.

Montag, 28. Februar 2022, 09:00 Uhr

Videokonferenz: BBB https://webconf.tu-clausthal.de/b/ger-hgq-son-uag