Deep-learning-based Automated Code Summarization

Description

High-quality code summarization can help developers comprehend programs as well as maintain software. To automate code summarization, two types of techniques are mainly applied – information retrieval and deep learning, where the latter is the main focus of this seminar topic. The deep-learning-based automated code summarization approaches usually apply Recurrent Neural Networks (RNNs) or Convolution Neural Networks (CNNs) with an attention mechanism to generate code comments.

The student is to examine and to discuss the current state of the art of deep-learning-based automated code summarization techniques.

References


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