Chair for Computation in Engineering
Deparment of Civil, Geo and Environmental Engineering
Technical University of Munich

A machine-learning based approach to detect and interpret plan symbols

Setting:

The RIMcomb research-project focuses on the transfer of BIM technology into the railway infrastructure industry. The mapping of existing railway infrastructure by digitalizing analogue plans is a major work package. In this scope plan symbols should be detected automatically by using neural networks.

Project Characteristics

Modeling:	☆☆☆☆☆
Mathematics:	★★★☆☆
Programming:	★★★★☆
Science:	★★★★☆

Your Tasks:

- Become acquainted with machine learning and neural networks
- Train and test a network with different plans and plan symbols
- Develop a software-tool that allows the easy and intuitive use and execution of symbol detection based on the neural network