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

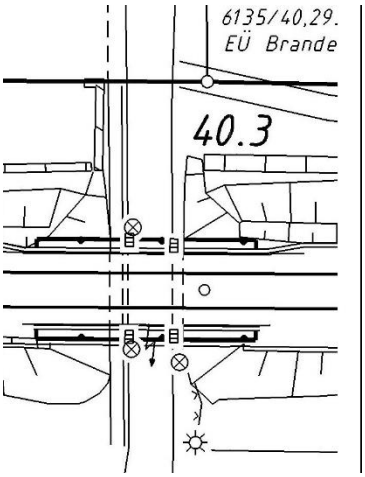
Modeling: ☆☆☆☆☆
Mathematics: ★★★☆☆
Programming: ★★★★☆
Science: ★★★★☆

Software Lab:

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.



Task

- 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

Supervisors

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