

SPIE, gemeinsam zum Erfolg

Artificial Intelligence (AI)

What is possible...

- Beat world champion in checkers, chess, go
- Automatic image and voice recognition (Alexa, Siri, ...)
- Object recognition in image data e.g. also tumors in CT scans
- Recommender Systems (Netflix, Spotify...)

What is not possible (yet) ...

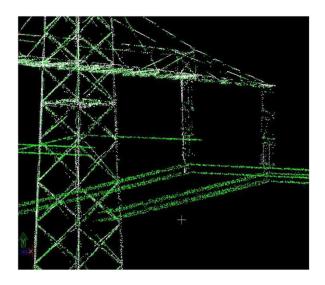
- Autonomous driving
- Complete human (inter-)action
- ...



Al – Training and Classification

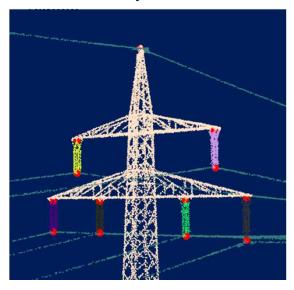
1. Stage: Training

Based on manually classified LiDAR-Data

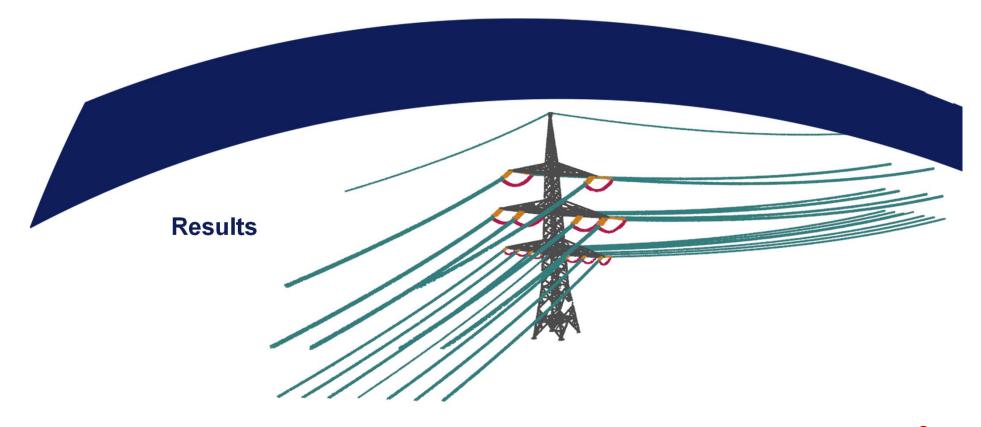


2. Stage: Automatic Classification

- Use trained model to classify unknown data (input: x,y,z coordinates)
- Result: Probability for each class

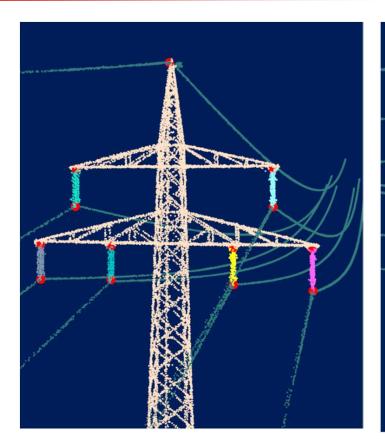








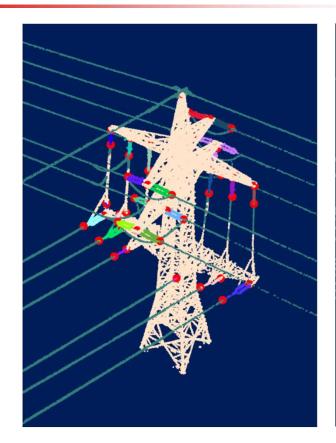
Results

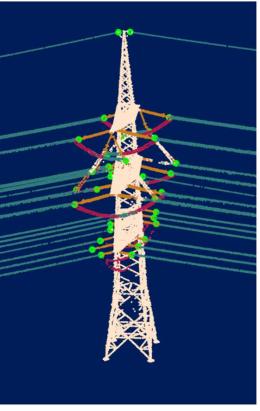


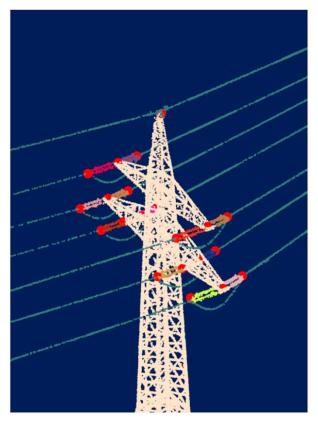




Results









Outlook - Vectorization





Outlook - Vectorization

