DIKU and COWI

Feature detection for asset mapping

Asset mapping is aimed at the accurate registration of infrastructure elements and furniture and typically employs a variety of observation platforms, both aerial and ground based, including lidar and high resolution imagery. Above on the left is the modelled result on top and the original view from the train below, this shows the level of detail obtained in many projects. On the right an example of a data collection platform and an example of the resulting point cloud is shown. Most of this is recorded manually, so there are many quick wins to make through automation – even if just for a subset of the relevant feature types. One possibility would be to detect the rails and/or some vertical structures in a video sequence taken from a running train.