

Jarosław Moczarski: Test Stand Designed to Verify Methods of Identifying Moving Objects

The use of modern techniques of data acquisition and analysis enables the creation of new, innovative solutions in the area of rail transport systems. The ability to identify rolling stock elements and to control the location of transported loads also enables the detection of irregularities, prediction of potential threats and the implementation of procedures ensuring the transport process safety. In order to evaluate the possibility of identifying the contours of rolling stock and loads, with the use of sensors and measurement signal visualization systems available on the market, a test stand was built with point and line laser sensors and laser vision systems. The configuration of the test stand also allows conducting experiments with the use of analogue and digital sensors.

Keywords: object identification, laser sensors, evaluation of the shape and position, recognition of rolling stock and loads