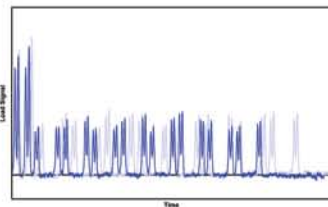




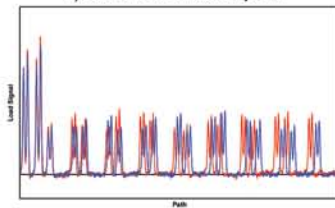
Railway Vehicle Recognition based on Fiber Optic Rail Pad Sensors (FORPS)

Matching Vehicles

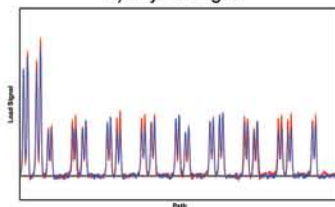
Train with 8 cars



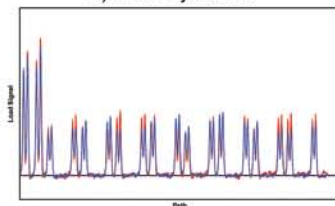
1) Switch to travelled path



2) Adjust length



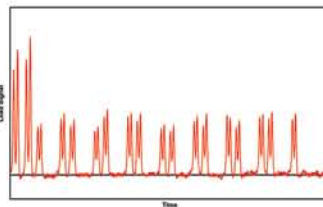
3) Inner adjustment



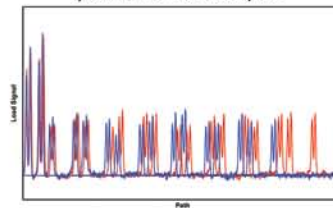
Match

Non-matching Vehicles

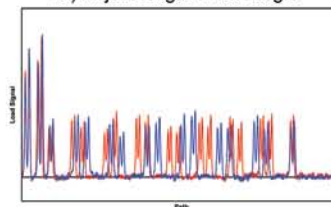
Train with 8 cars



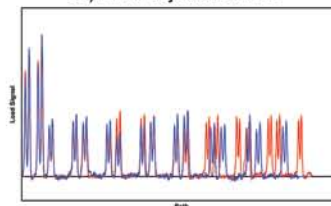
1) Switch to travelled path



2a) Adjust length to last bogie

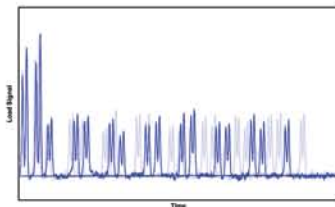


3a) Inner adjustment fails

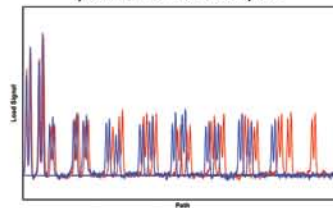


Mismatch

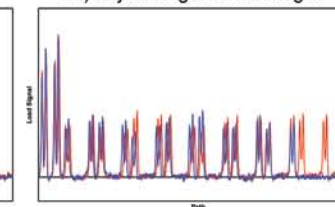
Train with 7 cars



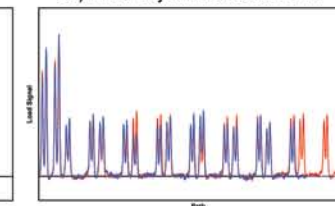
1) Switch to travelled path



2b) Adjust length to 16th bogie



3b) Inner adjustment successful



Incomplete match

Prepared for The Future

SENSOR LINE