Abstract

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"Study on the Earth-Train System ERTMS/ETCS 2 Level used in High Velocity Line: analysis of cadence."

This thesis has been developed to study an improvement to the way trains run under the Automatic Train Control system known as ERTMS/ETCS Level 2. A breaking model was studied, focusing on the aspects concerning Italian High Speed line, which is under construction between Rome and Naples.

A new Onboard Subsystem has been designed, in order to join security and efficiency.

This new Subsystem supervises the way Trackside Subsystem allows train to move along the line, making sure that off-line defined quality parameters are respected.