



Innovative Vibration Monitoring

SWAN-T

SMART WAYSIDE ACCELEROMETRIC NETWORK FOR TRACK

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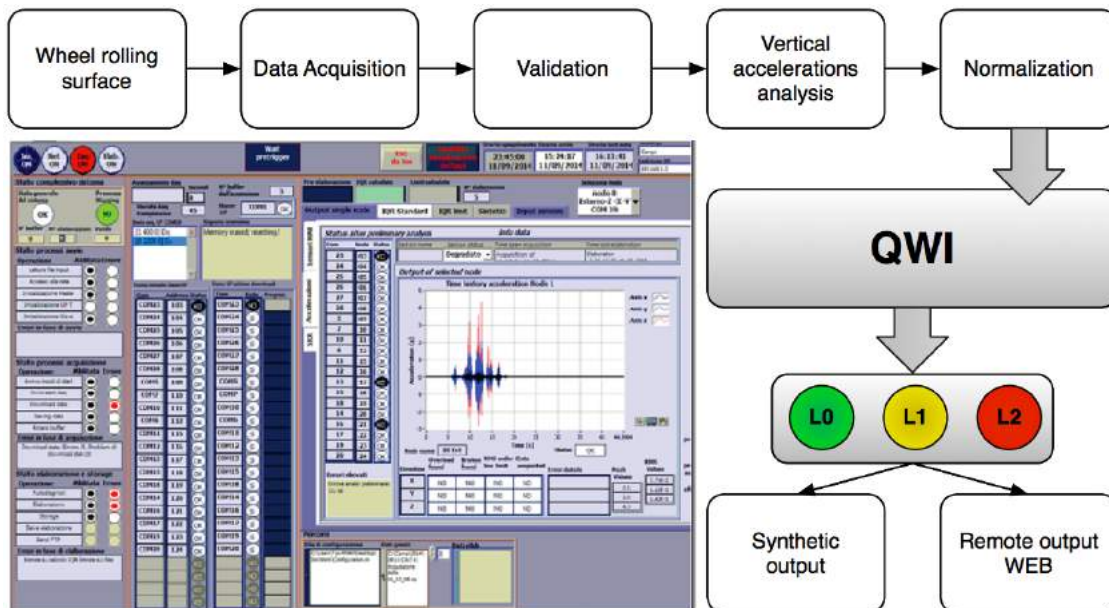


SWAN-T is a WCM (Wheel Condition Monitoring) system, that thanks to a particular construction architecture and to an innovative elaboration of the data, is capable of extracting information content from the measurement of the accelerations generated on the track at the passage of each wheel, providing automatically both a quantitative evaluation of the rail stress, and a synthetic Quality Wheel Index (QWI).



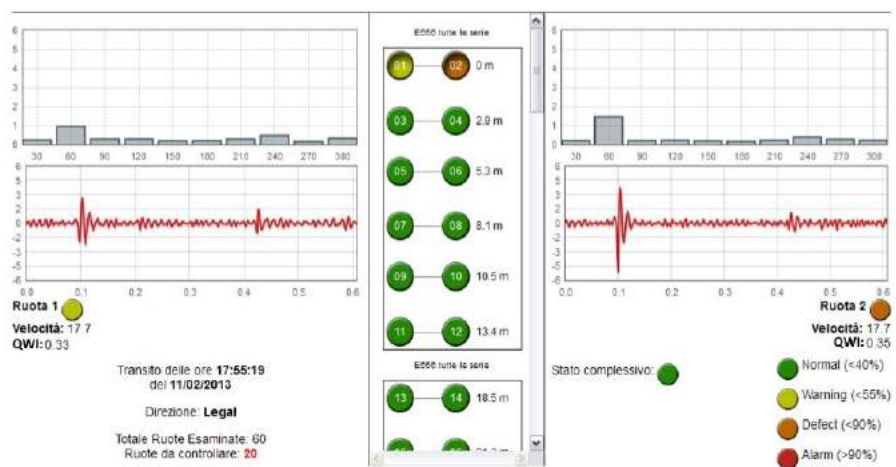
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SWAN-T provides a QWI for each wheel of a train passed, classifying them into three synthetic levels, L0-L1-L2, represented in green-yellow-red colors.

SWAN-T is able to recognize the number of the train transited plate and then uniquely identifies a wheel so as to monitor it in time.



SWAN-T provides valuable informations on the quality of the rolling surface of each wheel, in order to perform an “on condition” maintenance of the rolling stock, reducing maintenance costs and increasing operating safety.

Main features:

- ⦿ Automatic data acquisition, validation and processing;
- ⦿ Automatic QWI calculation and per single wheel alarm generation;
- ⦿ On-site storage of the acquired data, and automatic sending to a dedicated server;
- ⦿ Identification through dynamic wheel imprint;
- ⦿ Identification through automatic shot photograph;
- ⦿ Remote system control;
- ⦿ Self-diagnostics and downgrade working ability;
- ⦿ Web based platform for acquired data visualization;
- ⦿ User-friendly data management interface;
- ⦿ Two-way traffic;
- ⦿ Highly repeatable measurements;
- ⦿ Easy management and maintenance;
- ⦿ No limit to the length of the train;
- ⦿ Optionally powered by photovoltaic system;
- ⦿ Sensors installation to the rail by superglue - no track alteration required;
- ⦿ High resistance in potentially hostile environments.

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