



Innovative Vibration Monitoring

SWAN

SMART WAYSIDE ACCELEROMETRIC NETWORK

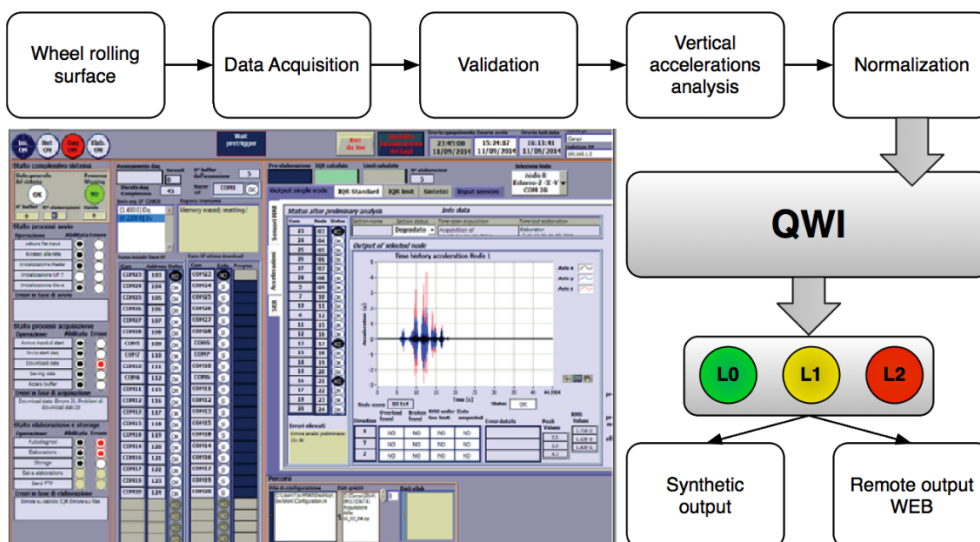
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Smart Wayside Accelerometric Network



SWAN is a WCM (Wheel Condition Monitoring) system, that thanks to a particular construction architecture and to an innovative elaboration scheme 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, automatically providing both a quantitative evaluation of the rail stress, and a synthetic Quality Wheel Index (QWI).

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



SWAN is able to recognize the number of the transited train plate and then it univocally identifies a wheel so as to monitor it over time.

The system provides valuable information 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.

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