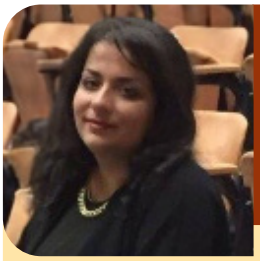

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ABSTRACT

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INCREASING SCANNING SPEED DURING INDUCTION THERMOGRAPHY TESTS: SIMULATIONS AND EXPERIMENTAL TESTS TO INVESTIGATE CRACK DETECTABILITY

This work investigates the influence of scan speed during induction thermographic tests to explore the possibility of increasing this parameter for railway applications. Although different works in literature investigated induction thermography and crack detection, even obtaining the Probability of Detection (PoD) curves with simulated and experimental results, the influence of scan speed and correlation of this parameter with geometrical characteristics of the crack is still an open point.