



Technical Thematic Session:

Experimental and numerical analysis in transport infrastructure

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To obtain further insight into the behaviour of transport infrastructures it is essential to perform adequate physical and mechanical characterization of its materials and elements. However, due to the particular characteristics of the actions acting on these structures, its experimental analysis remains a challenge. In fact, particularly in response to the cyclic loads due to the successive passage of vehicle axes, these structures exhibit a non-linear behaviour, small resilient deformations in the supporting layers at each load cycle and permanent deformation in the long-term. In order to better understand the behaviour of these structures and to contribute to its sustainable management, research and technological advances in this field have supported in studies involving monitoring of experimental stretches, numerical modelling and laboratorial testing on materials and physical models.\