



## Technical Thematic Sessions

Experimental methods in Structural Dynamics and Earthquake Engineering

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Experimental methods are an important tool in the field of Structural Dynamics, for evaluating the performance of existing structures in an effective way and without the use of destructive methods. For this reason, these methods are increasingly used in the monitoring of special structures, bridges and buildings high heritage value, since they allow to detect changes in their behaviour, either globally or locally, likely to occur over time due to diverse phenomena like deterioration of materials, occurrence of damage, change of boundary conditions, etc...

On the other hand, in the area of Earthquake Engineering, experimental methods attempt to explore the boundaries of the load capacity of structures subjected to the action of earthquakes, requiring complex equipment and test devices. Whether testing complete structures, substructures or individual elements, ensuring a controlled environment is critical to enable proper interpretation of the results.

The goal to hold a meeting dedicated to this issue is to promote the spread of applications and the latest developments in an area constantly evolving.

<http://cnme2016.lnec.pt/temas.html>