

## **Experimental characterization of the seismic structural performances – an illustrated critical review**

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Experimental characterization of the seismic performances of structures can be carried out through the use of different types of tests. The four basic test methodologies are (i) static pushover testing, (ii) static cyclic testing, (iii) pseudo-dynamic testing and (iv) shake-table dynamic testing. Despite the fact that only the last one is representative of the reality, each of these four have clear advantages and drawbacks and can bring interesting and useful information on the structural behaviour under earthquake conditions.

The purpose of the seminar is to present a critical overview of the different testing methodology (however with less focus on pseudo-dynamic testing), illustrated by practical cases coming from two recent research programs dealing respectively with the seismic design and response of unreinforced masonry structures and of steel storage racking systems.

