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ON DYNAMIC CONTROL OF STRUCTURAL VIBRATIONS RESEARCH ACTIVITIES CONDUCTED WITHIN THE COVICOCEPAD PROJECT

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Abstract:

This paper provides an overview on the latest research and development (R&D) activities carried out under the project entitled **Comparison of Vibration Control in Civil Engineering Using Passive and Active Dampers (COVICOCEPAD)** which was executed within the framework of the Eurocores project, as a part of the sixth European program. The general interest of the paper relies upon the variety of presented highlights relevant to structural control research streams currently under development in a number of European universities, addressing the use of tuned liquid dampers (TLD), base isolation devices, magneto-rheological (MR) dampers and a hybrid technique using both devices together. The paper also provides details of a few new testing equipments which are in use of the relevant laboratories. Finally, research projects in the field of structural control at the involved research institutes are reviewed.

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