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SUMMARY OF ACTIVITIES IN DESIGN OF BUILT-UP STEEL MEMBERS

FUNDED RESEARCH PROJECTS

- “Nonlinear behavior of built-up steel columns”, PEVE-2011 funded by the National Technical University of Athens, P.I. (2012-2013).

SUPERVISION OF DOCTORAL THESES

- Kostis Kalochairetis (January 2014), “Built-up Steel Columns with Arbitrary Boundary Conditions Subjected to Combined Axial and Transverse Loads”.

<https://www.didaktorika.gr/eadd/handle/10442/37419>

ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ

- Kalochairetis, K.E. Gantes, C.J. and Lignos, X.A., “Experimental and Numerical Investigation of Eccentrically Loaded Laced Built-Up Steel Columns”, *Journal of Constructional Steel Research*, Vol. 101, pp. 66-81, October 2014.

doi : <http://dx.doi.org/10.1016/j.jcsr.2014.04.032>

- Gantes, C.J. and Kalochairetis, K.E., “Axially and Transversely Loaded Timoshenko and Laced Built-up Columns with Arbitrary Supports”, *Journal of Constructional Steel Research*, Vol. 77, pp. 95-106, October 2012.

doi: <http://dx.doi.org/10.1016/j.jcsr.2012.05.004>

- Kalochairetis, K.E. and Gantes, C.J., “Elastic Buckling Load of Multi-Story Frames Consisting of Timoshenko Members”, *Journal of Constructional Steel Research*, Vol. 71, pp. 231-244, April 2012.

doi: <http://dx.doi.org/10.1016/j.jcsr.2011.11.007>

- Kalochairetis, K.E. and Gantes, C.J., “Numerical and Analytical Investigation of Collapse Loads of Laced Built-up Columns”, *Computers & Structures*, Vol. 89, Issues 11-12, pp. 1166-1176, June 2011.

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ΠΑΡΟΥΣΙΑΣΕΙΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΣΥΝΕΔΡΙΑ

- Kalochairetis, K.E. and Gantes, C.J., “Analytical Method for the Evaluation of the Behavior of Single-Storey Frames Consisting of Built-Up Members”, *8th Greek National Steel Structures Conference*, Tripoli, 2-4 Oct. 2014 (in Greek with English summary).
- Kalochairetis, K.E. and Gantes, C.J., “Collapse Load of Laced Built-up Members: Experimental, Numerical and Analytical Investigation”, *EuroSteel 2014, 7th European Conference on Steel and Composite Structures*, Napoli, Italy, Sept. 10-12, 2014.

- Kalochairetis, K.E. and Gantes, C.J., “Experimental and Numerical Investigation of Collapse Load of Laced Built-up Columns”, *International Association for Shell and Spatial Structures (IASS) Symposium 2013 “Beyond the Limits of Man”*, J.B. Obrebski and R. Tarczewski (eds.), Wroclaw University of Technology, Poland, Sep. 23-27, 2013.
- Gantes, C.J. and Kalochairetis, K.E., “Nonlinear Analysis of Imperfect Timoshenko Members under Lateral Loading and its Application to Laced Built-up Columns”, *7th Greek National Steel Structures Conference*, Volos, Sep. 29 - Oct. 1, 2011 (in Greek with English summary).
- Kalochairetis, K.E. and Gantes, C.J., “Second Order Analysis of Imperfect Timoshenko Members with Arbitrary Boundary Conditions and its Application to Laced Built-up Columns”, *6th European Conference on Steel and Composite Structures*, Budapest, Hungary, Aug. 31 - Sep. 2, 2011.
- Kalochairetis, K.E. and Gantes, C.J., “Numerical and Analytical Investigation of Collapse Loads of Laced Built-up Columns”, *6th MIT Conference on Computational Fluid and Solid Mechanics*, Cambridge, Massachusetts, June 15 - 17, 2011, edited by K.J. Bathe.