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E-mail: [chgantes@central.ntua.gr](mailto:chgantes@central.ntua.gr), [chgantes@alum.mit.edu](mailto:chgantes@alum.mit.edu)Web: <http://users.civil.ntua.gr/chgantes/en/> - LinkedIn: [www.linkedin.com/in/CharisGantes](http://www.linkedin.com/in/CharisGantes)**SUMMARY OF ACTIVITIES IN DESIGN OF STEEL STRUCTURES AGAINST FIRE****DESIGN AND CONSULTING ACTIVITY**

- Participation in the special working group set up by the Greek Ministry of Public Works to investigate the reasons and consequences of a failure due to fire in one of the cables of the cable-stayed Rion-Antirion Bridge (2005-2006).

**FUNDED RESEARCH PROJECTS**

- “ELISSA - Energy Efficient Lightweight-Sustainable-SAFE-Steel Construction”, FP7-NMP E2B, Prof. M. Founti as P.I. (School of Mechanical Engineering, NTUA) (2013-2016).

**JOURNAL PUBLICATIONS**

- Thanasoulas, I.D., Vardakoulis, I.K., Kolaitis, D.I., Gantes, C.J. and Founti, M.A., “Coupled Thermo-Mechanical Simulation for the Performance-based Fire Design of CFS Drywall Systems”, *Journal of Constructional Steel Research*, Vol. 145, pp. 196-209, June 2018.  
doi: <http://dx.doi.org/10.1016/j.jcsr.2018.02.022>
- Thanasoulas, I.D., Vardakoulis, I.K., Kolaitis, D.I., Gantes, C.J. and Founti, M.A., “Thermal and Mechanical Computational Study of Load-Bearing Cold-Formed Steel Drywall Systems Exposed to Fire”, *Fire Technology*, Vol. 52, Issue 6, pp. 2071-2092, Nov. 2016.  
doi: <http://dx.doi.org/10.1007/s10694-016-0604-4>

**CONFERENCE PUBLICATIONS**

- Thanasoulas, I.D., Vardakoulis, I.K., Kolaitis, D.I., Gantes, C.J. and Founti, M.A., “Nonlinear Numerical Simulation of Fire Resistance Tests for Load-Bearing Cold-Formed Steel Drywall Systems”, *9<sup>th</sup> Hellenic National Conference on Steel Structures*, Larissa, Greece, 5-7 Oct. 2017 (in Greek with English summary).
- Thanasoulas, I.D., Vardakoulis, I.K., Kolaitis, D.I., Gantes, C.J. and Founti, M.A., “A Preliminary Thermal and Mechanical Simulation Study of Load-Bearing Cold-Formed Steel Drywall Systems Exposed to Fire”, *2<sup>nd</sup> ESFSS - 2<sup>nd</sup> European Symposium of Fire Safety Science*, Nicosia, Cyprus, 16-18 June 2015.