

CIVIL-COMP-OPTI 2023
The Sixth International Conference on
Soft Computing, Machine Learning and Optimization in
Civil, Structural and Environmental Engineering
28-31 August 2023
Pécs, Hungary

Special Session: C-C-OPTI-S7

Advanced lightweight structural design

Organisers:

Prof. Weihong ZHANG, zhangwh@nwpu.edu.cn, Northwestern Polytechnical University

Assoc. Prof. Liang MENG, liang.meng@nwpu.edu.cn, Northwestern Polytechnical University

Assoc. Prof. Matteo Bruggi, matteo.bruggi@polimi.it, Politecnico di Milano

Assoc. Prof. Matthijs Langelaar, M.Langelaar@tudelft.nl, Delft University of Technology

Aims and Scope:

Papers relating to the general topic of advanced lightweight structural design encompassing disparate engineering disciplines are invited. Possible application areas include, but are not limited to: aerospace engineering, civil engineering, additive manufacturing, bionic and multiscale materials. A particular interest is paid to the lattice-infilled and rib-stiffened thin walled structures, as well as the reinforced concrete structures. Numerical implementation techniques, ranging from the high-precision simulation to the advanced designing protocol of multiscale structures such as topology optimization, biomimetic design and the emerging data-driven methods, are welcomed.