

Pre-nominated Session SM24

Structural optimization

Co-Chair(s): **K.K. Choi (USA)**
 J. Herskovits (Brazil)

Paper ID	Title	Authors
SM24S_10048	Shape Sensitivity Analysis for Fixed - Grid Analysis Based on Oblique Boundary Curve Approximation	Yoon Young Kim, Gang-Won Jang
SM24S_10052	Perturbation of the Compliance Functional Due to the Appearance of a Small Cavity in an Elastic Body	Tomasz Lewinski, Jan Sokolowski
SM24L_10433	Topology Optimization of Vibrating Structures with Hydrodynamic Surface Pressure Loading	Niels Olhoff, Jianbin Du
SM24L_10594	A Technique for Nonsmooth Optimization Based on the Interior Point Feasible Directions Algorithm	Jose Herskovits, Wilhelm Passarel, Susana Scheimberg, Regina Burachik
SM24S_10621	Nash Equilibrium in Bicriteria Structural Optimization	Timo Saksala
SM24L_10669	On Shape Optimization for Eigenvalue Problems	Pauli Pedersen, Niels L. Pedersen
SM24L_11015	Shape Optimisation of Railway Wheel Profile	V. L. Markine, I. Y. Shevtsov, C. Esveld
SM24L_11137	Shape Optimization of Thermomechanical Structures in the Presence of Convection and Radiation Using Parallel Evolutionary Computation	Ryszard A. Bialecki, Tadeusz S. Burczynski, Adam Dlugosz, Wacław Kus, Ziemowit Ostrowski
SM24S_11316	Efficient Optimization of Transient Dynamic Problems for a Micro Accelerometer Using Model Order Reduction	Jeong Sam Han, Evgenii B. Rudnyi, Jan G. Korvink
SM24L_11349	Damage Identification in Structures by Means of Thermographic Methods	Krzysztof Dems, Zenon Mroz
SM24S_11486	Topological Optimization for Contact Problems	Jan Sokolowski, Antoni Zochowski
SM24S_11532	Coupled Sensitivity and Design Optimization for Thermo - Structural Systems	Yuanxian Gu, Biaosong Chen, Tao Liu
SM24L_11623	New Classes of Analytically Derived Optimal Topologies and Their Numerical Confirmation	George I. N. Rozvany, Janos Logo, Osvaldo M. Querin

SM24S_11634	Optimal Structures for Buckling Forces and Buckling Displacements	Jacek Kruszelecki, Pawel Smas
SM24L_11744	Optimization of Beam Properties with Respect to Maximum Band-Gap	Soeren Halkjaer, Ole Sigmund
SM24L_11760	Optimal Layout of Two Materials within the Core Layer of a Sandwich Plate. Relaxed Formulation and Its Computational Algorithm	Slawomir Czarnecki, Michal Kurasa, Tomasz Lewinski
SM24L_11826	Material Cloud Method for Topology Optimization	Su - Young Chang, Sung - Kie Youn
SM24S_11858	Optimal Design of Unconstrained Damping Layer on Beams	Doo - Ho Lee, Woo - Seok Hwang
SM24L_11936	On Separation of Eigenfrequencies in Two - Material Structures	Niels L. Pedersen
SM24S_12074	Density Gradient Based Regularization of Topology Optimization Problems	Gregor Kotucha, Klaus Hackl
SM24S_12075	New Results of Structural Optimization for Post - Buckling Behaviour	Bogdan Bochenek, Michal Zyczkowski
SM24L_12079	Compliant Mechanism Design for Adaptive Trailing Edge Flaps	Thomas Buhl
SM24L_12098	Structural Optimization of Composite Shell Structures Using a Discrete Constitutive Parameterization	Erik Lund, Jan Stegmann
SM24S_12185	Why Parameterizing Element Connectivity for Topology Optimization?	Yoon Gil Ho, Kim Yoon Young
SM24S_12200	Topology Optimization of the Geometrically Nonlinear Structures Made of Rubber - Like Material	Sami Holopainen
SM24L_12222	Optimal Design of Lossy Bandgap Structures	Jakob S. Jensen
SM24S_12287	Non - Gap Design Method and Test for Post - Tensioned Prestressed R.C. Structure	Li Lijuan, Liu Feng, Fu Ganqing, Lu Weiwen

SM24L_12302	Design of Articulated Mechanisms with a Degree of Freedom Constraint Using Global Optimization	Atsushi Kawamoto, Mathias Stolpe
SM24S_12413	Simulation of Trabecular Bone Adaptation - Creating the Optimal Structure	Michal Nowak, Marek Morzynski
SM24S_12573	Optimal Design of Elasto-Plastic Structures Subjected to Normal Loads and Earthquake	Sandor Kaliszky, Janos Logo
SM24S_12628	Optimal Force Action and Reaction in Structural Design and Identification	Andrzej Garstecki, Zbigniew Pozorski, Krzysztof Ziopaja
SM24S_12679	DSA for Elastic - Plastic Finite Rotation Shells under Dynamic Loads	K. Wisniewski, Piotr Kowalczyk, Ewa Turska
SM24L_12789	Optimization of Functionally Graded Materials with Temperature Dependent Properties. A Meshfree Solution	Florin Bobaru, Han Jiang
SM24L_12870	Optimum Blank Design for Deep Drawing Using Interaction of High and Low Fidelity Simulation	Ryutaro Hino, Fusahito Yoshida, Vassili Toropov
SM24S_12916	Computational Tricks for Efficient Design Sensitivity Analysis	Henrik T. Moller, Erik Lund
SM24L_13013	The Concurrent Design of Materials and Structures for Cellular Materials on Efficiency of Heat Dissipation	Wang Bo, Gengdong D. Cheng