

WCSMO-13 Program

Opening Ceremony

Monday, 20th May 2019, 9:30 – 10:40

Agenda

Welcome speech from the Local Organizing Committee

Speech: Professor Gengdong Cheng (President of ISSMO)

Plenary Lecture: Professor Haiyan Hu (former President of Chinese Society of Theoretical and Applied Mechanics)

Deployable Space Structures: Challenges to Computational Dynamics

Welcome Reception

Monday, 20th May 2019, 18:40

SOTA & General Assembly

Thursday, 23th May 2019 14:00 – 15:40; 16:00-17:40

Agenda

0. State-of-the-art discussion

Coffee Break

1. President's report

2. Secretary General's report

3. Treasurer's report

4. SMO Editor's report

5. Local Organizing Committee: Summary of WCSMO13 contributions

6. ISSMO Springer Prize presentation

7. Call for the nomination of WCSMO-13 ISSMO Springer Prize

8. Call for proposals for hosting WCSMO-14

9. Announcement of ISSMO EC election result

Conference Dinner

Thursday, 23th May 2019, 19:00

Technical Sessions

Monday, 20th May 2019 -Thursday, 23th May 2019

9:00-13:00; 14:00-18:00

Room 206A&B

Room: 206A&B		Aerospace Design Optimization	
Monday			
Chair: Xu Guo (DUT, China)			
Time	ID	Presenting Author	Title
11:20	A060482	Baoyan Duan (Xidian University, China)	New tendency of large space deployable antennas (LSDAs) and the integrated multidisciplinary comprehensive optimum design software—SDADS Baoyan Duan, Jingli Du, Yiqun Zhang
11:40	A210883	Gang Li (DUT, China)	A new efficient decoupled method of reliability-based design optimization using quantiles Gang Li, Hua Yang, Gang Zhao
12:00	A060874	Kirill Balunov (TsAGI, Russia)	Structural optimization with stress and flutter constraints of hybrid metal-composite high aspect ratio wing Kirill Balunov, Vasily Chedrik
12:20	A060351	Wensheng Zhu (NUAA, China)	Aerodynamic/structural integrated design optimization of blended wing body aircraft Wensheng Zhu, Xiongqing Yu, Jianli Wang, Shuai Zhang
12:40	A060464	Tong Gao (NPU, China)	Structural design of hypersonic vehicle using topology optimization Tong Gao, Xueying Qiu, Dihuan Wu, Lei Tang, Longlong Song, Guanghui Shi, Qianying Zhou, Dongliang Quan

Room: 206A&B		Topology Optimization	
Monday			
Chair: Gengdong Cheng (DUT, China)			
Time	ID	Presenting Author	Title
14:00	A250660	Junji Kato (Tohoku University, Japan)	Robust topology optimization based on finite deformation to uncertain loading conditions Takayuki Nishino, Junji Kato
14:20	A250831	Jose C. Bellido (University of Castilla-La Mancha, Spain)	Topology optimization of hyperelastic structures for minimum structural end-compliance Rogelio Ortigosa, David Ruiz, Jose C. Bellido, Alberto Donoso, Antonio Gil
14:40	A250828	Hyeong-Seok Koh (Hanyang, Korea)	Efficient topology optimization of multi structures using the substructure based model order reduction method Hyeong Seok Koh, Gil Ho Yoon
15:00	A250314	Simone Coniglio (Universite de Toulouse, France)	Application of geometric feature based topology optimization to engine pylon architecture design including engine performance criteria Simone Coniglio, Christian Gogu
15:20	A250826	Alicia Kim (UCSD, USA)	Multiscale design optimization for coupled multiphysics functionalities Zongliang Du, Lei Li, SandilyaKambampati, Hyunsun Alicia Kim

Room: 206A&B Monday		Topology Optimization	
Chair: Junji Kato (Tohoku, Japan)			
Time	ID	Presenting Author	Title
16:20	A250791	Ming Zhou (Altair, USA)	Layout optimization of rib stiffeners by MMC approach Ming Zhou, Yunshan Lai, Shaobin Liu, Raphael Fleury
16:40	A240557	Erik Lund (Aalborg, Denmark)	On solid shell modeling for thickness optimization of laminated composites Erik Lund, Jonas H. Sjølund
17:00	A250496	Daiki Watanabe (Tohoku University, Japan)	Preliminary investigation for weight reduction by multi-material topology optimization DaikiWatanabe, Junji Kato
17:20	A250325	Stijn Koppen (TUD, Netherlands)	Synthesis of multi-input-multi-output compliant mechanisms with defined transmission ratios using density-based topology optimization Stijn Koppen, Matthijs Langelaar, Fred van Keulen
17:40	A240361	Jiazheng Du (BJUT, China)	Multi-model model updating for rocket attitude control Jiazheng Du, Shengwei Fu, Yingkang Xu, Wen Deng

Room: 206A&B Tuesday		Topology Optimization	
Chair: Shikui Chen (StonyBrook, USA)			
Time	ID	Presenting Author	Title
9:00	A250474	Eric Garner (TUD, Netherlands)	Compatibility in microstructural optimization for additive manufacturing Eric Garner, Helena M. A. Kolken, Charlie C. L. Wang, Amir A. Zadpoor, Jun Wu
9:20	A250540	Manman Xu (HUST, China)	An isogeometric approach to topology optimization of spatially graded hierarchical structures Manman Xu, Shuting Wang, Liang Xia, Lunhong Liu, Xianda Xie
9:40	A250630	Wenjiong Chen (DUT, China)	Multiscale topology design of shell-infill structure with graded microstructures for additive manufacturing Xiaonan Zheng, Wenjiong Chen, Shutian Liu
10:00	A250597	Yan Zhang (HUST, China)	Concurrent topological design of macrostructures with connectable graded microstructures for minimizing frequency responses Yan Zhang, Mi Xiao, Liang Gao, Hao Li, Mengli Ye
10:20	A110327	Youngsoo Choi (Livermore, USA)	Accelerating topology optimization process using reduced order models Youngsoo Choi, Geoffrey Malcolm Oxberry, Daniel White, Trenton Thomas Kirchdoerfer

Room: 206A&B Tuesday		Topology Optimization	
Chair: Jun Wu (TUD, Netherlands)			
Time	ID	Presenting Author	Title
11:20	A250669	Zhirui Fan (DUT, China)	Multi-scale eigenfrequency optimization of multi-materials lattice structures based on asymptotic homogenization method Zhirui Fan, Jun Yan, Mathias Wallin, Matti Ristinmaa, Bin Niu, Guozhong Zhao
11:40	A250612	Hao Li (HUST, China)	An efficient parametric level set method with matrix-compressed scheme for dynamic response optimization Hao Li, Liang Gao, Mi Xiao, Zhen Luo, Junjian Fu
12:00	A250677	Simon Bauduin (University of Liège, Belgium)	Misalignment topology optimization with manufacturing constraints Simon Bauduin, Pablo Alarcon, Eduardo Fernandez, Michael Bruyneel, Julie Jossieaux, Jean-Marc Vasseen, Pierre Duysinx
12:20	A250678	Kai Wu (Tsinghua University, China)	Multi-objective dynamic topology optimization of the aircraft cabin Kai Wu, Jianbin Du
12:40	A250682	Carl-Johan Thore (Linköping University, Sweden)	Topology optimization of freely floating elastic continua using the inertia relief method Carl-Johan Thore

Room: 206A&B Tuesday		Topology Optimization	
Chair: Weisheng Zhang (DUT, China)			
Time	ID	Presenting Author	Title
14:00	A250697	Pierre Duysinx (Liège University, Belgium)	Density-based topology optimization with stress constraints Pierre Duysinx, Maxime Collet, Shanglong Zhang, Eduardo Fernandez Sanchez, Julian Norato
14:20	A250686	Chenguang Zhang (DUT, China)	Concurrent multi-scale optimization of three-dimensional lattice structures considering additive manufacturing constraints Chenguang Zhang, Jun Yan, Kun Yan, Liang Hou, Xianghai Chai
14:40	A250687	Sunghoon Lim (Kyoto University, Japan)	Multiscale topology optimization for a high performance magnetic actuator design Sunghoon Lim, Takayuki Yamada, Kazuhiro Izui, Shinji Nishiwaki, Seungjae Min
15:00	A250702	Peter Dunning (Aberdeen, UK)	Topology optimization of stiffened shell structures considering nonlinear geometry Peter D. Dunning
15:20	A250720	Cheol Kim (Kyungpook National University, Korea)	Structural topology optimization based on nurbs curves and moving morphable components Rongzhen Zheng, Cheol Kim

Room: 206A&B		Topology Optimization	
Tuesday			
Chair: Liang Xia (HUST, China)			
Time	ID	Presenting Author	Title
16:20	A250688	Jianbin Du (Tsinghua, China)	Multi-objective topological design using discrete cosine transformation compression and multi-resolution mesh Pingzhang Zhou, Jianbin Du, Zhenhua Lv
16:40	A250695	Hua Zhao (NPU, China)	Integrated layout and topology optimization design of multi-components structure system under harmonic excitation Hua Zhao, Jihong Zhu, Weihong Zhang, Tao Liu
17:00	A250698	Tingting Jin (DUT, China)	Volute Design of centrifugal pump using topology optimization method Shengli Xu, Tingting Jin, Hui Zhang
17:20	A250699	Suguang Dou (DTU, Denmark)	Porous structural design for additive manufacturing and improved damage tolerance Suguang Dou

Room: 206A&B		Topology Optimization	
Wednesday			
Chair: Eddie Wadbro (Umeå University, Sweden)			
Time	ID	Presenting Author	Title
9:00	A250719	Mathias Wallin (Lund, Sweden)	Topology optimization of bi-stable structures Mathias Wallin, Daniel Tortorelli
9:20	A250608	Jikai Liu (Shandong University, China)	Inherent strain based topology optimization for additive manufacturing residual distortion/ stress control Jikai Liu, Qian Chen, Xuan Liang, Albert C To
9:40	A250672	Qi Xu (DUT, China)	Topology optimization of thermo-elastic structures based on moving morphable component framework Qi Xu, Jun Yan, Kun Yan, Weisheng Zhang, Xu Guo
10:00	A250726	Anna Dalklint (Lund, Sweden)	Eigenfrequency optimization of nonlinear hyperelastic structures using low density element removal Anna Dalklint, Mathias Wallin, Daniel Tortorelli
10:20	A250704	Yongbo Deng (CAS, China)	Topology optimization on 2-manifolds Yongbo Deng, Zhenyu Liu, Jan G. Korvink

Room: 206A&B		Topology Optimization	
Wednesday			
Chair: Mathias Wallin (Lund, Sweden)			
Time	ID	Presenting Author	Title
11:20	A250692	Taehoon Jung (GIST, Korea)	Topology optimization of coupled magnetic field and thermal problems in magnetic actuators Taehoon Jung, Jaewook Lee
11:40	A250717	Casper Andreasen (DTU, Denmark)	Topology optimization of fluid flow and particle motion in dilute suspensions Casper Andreasen, Jeppe Christensen
12:00	A250723	Niklas Ivarsson (Lund, Sweden)	Topology optimization based on finite strain viscoplasticity Niklas Ivarsson, Mathias Wallin, Daniel Tortorelli
12:20	A250725	Ryota Misawa (Kyoto University, Japan)	Topology optimization for 3d elastostatic problems with mass constraint using multiple materials Ryota Misawa, Sunghoon Lim, Shinichi Maruyama, Takayuki Yamada, Kazuhiro Izui, Shinji Nishiwaki
12:40	A250722	Siqi Li (BIT, China)	A density-mapping-based multi-material cellular structural topology optimization method Siqi Li, Y. C. Bai, C. Lin

Room: 206A&B		Topology Optimization	
Wednesday			
Chair: Oded Amir (Technion, Israel)			
Time	ID	Presenting Author	Title
14:00	A250634	Xiaojia Shelly Zhang (UIUC, USA)	Adaptive multi-material topology optimization with material and geometric nonlinearities: a novel approach using virtual elements Xiaojia Shelly Zhang, Heng Chi, Glaucio H. Paulino
14:20	A250731	Hansotto Kristiansen (DTU, Denmark)	Topology optimization structural problems with frictional contact Hansotto Kristiansen, Konstantinos Poullos, Niels Aage
14:40	A250740	Fabio Crescenti (Cranfield University, UK)	Generation of smart pareto sets for multi-objective simp-based topology optimisation Fabio Crescenti ¹ , Kipouros Timoleon, Savill Mark
15:00	A250745	Saketh Sridhara (Indian Institute of Science, Bengaluru, India)	Application of topological derivative for the design of composite components subjected to thermo-mechanical loading Akshay Desai, Saketh Sridhara, Kiran Kumar, Sesha Gundavarapu, G. K. Ananthasuresh

Room: 206A&B		Topology Optimization	
Wednesday			
Chair: Xiaojia Shelly Zhang (UIUC, USA)			
Time	ID	Presenting Author	Title
16:20	A250762	Oded Amir (Technion, Israel)	Reducing computational effort in stress-constrained topology optimization Oded Amir
16:40	A250752	Ioanna Koutla (University of Liege, Belgium)	Imposing the minimum gap distance between solid members generated by maximum size constraints in topology optimization Ioanna Koutla, Eduardo Fernández, Simon Bauduin, Pablo Alarcón, Pierre Duysinx
17:00	A250774	Katarzyna Tajs-Zielinska (Cracow UT, Poland)	Adaptive Cellular Automata Based on Irregular Grids Implemented to Structural Topologies Generation Katarzyna Tajs-Zielinska, Bogdan Bochenek, Yuriy Yashchuk
17:20	A250786	Ali Azari Nejat (Hamburg UT, Germany)	Topology optimization of flexible multibody systems using a parametrized level set method Ali Azari Nejat, Ali Moghadasi, Alexander Held, Robert Seifried
17:40	A250751	Eduardo Fernandez (University of Liege, Belgium)	An overhang constraint adaptable to a proper building orientation Eduardo Fernández, Kai-ke Yang, Ioanna Koutla, Simon Bauduin, Pablo Alarcón, Pierre Duysinx

Room: 206A&B		Topology Optimization	
Thursday			
Chair: Zhan Kang (DUT, China)			
Time	ID	Presenting Author	Title
9:00	A250638	Hiroshi Isakari (Nagoya University, Japan)	A 3D topology optimisation with level-sets of B-spline surface Hiroshi Isakari, Toru Takahashi, Toshiro Matsumoto
9:20	A250664	Jian Zhang (TUD, Netherlands)	A level set-based topology optimization using interface-enriched finite elements Sanne J. van den Boom, Jian Zhang, Alejandro M. Aragón, Fred van Keulen
9:40	A250659	Xuefeng Zhu (DUT, China)	Temperature constrained topology optimization of thermo-mechanical coupled problems Xuefeng Zhu, Chao Zhao, Yu Zhou, Ping Hu, Zhengdong Ma
10:00	A250793	Saad Eddine Hafsa (Wuppertal, Germany)	New geometric features in the topology optimization method for the adaptation of structures Saad Hafsa, Javed Butt, Axel Schumacher
10:20	A250553	Zhen Luo (UT Sydney, Australia)	Topology optimization of metamaterials with isogeometric analysis and additive manufacture Zhen Luo, Jie Gao, Mickey Coleman

Room: 206A&B		Topology Optimization	
Thursday			
Chair: Fabian Wein (Nürnberg, Germany)			
Time	ID	Presenting Author	Title
11:20	A250390	Zhan Kang (DUT, China)	A velocity field level set method for structural topology optimization Zhan Kang, Yaguang Wang
11:40	A250329	Mads Baandrup (DTU, Denmark)	Large scale topology optimization of girders in cable supported bridges Mads Baandrup, Ole Sigmund, Niels Aage
12:00	A250805	Nicolas Lebbe (Université Grenoble Alpes, France)	Dealing with uncertainties in shape optimization of nano-phonic devices Nicolas Lebbe, Charles Dapogny, Karim Hassan, Edouard Oudet, Alain Glière
12:20	A250354	Yichang Liu (SJTU, China)	Thermal conductive support structure design for additive manufacturing by topology optimization Yichang Liu, Mingdong Zhou

Room 207

Room: 207		Topology Optimization	
Monday			
Chair: Pierre Duysinx (Liège, Belgium)			
Time	ID	Presenting Author	Title
11:20	A250814	Jonas Lundgren (Linköping University, Sweden)	Optimal cooling by 2D topology optimization of 3d-modelled convection-diffusion and stokes flow multi-physics problems Jonas Lundgren, Anders Klarbring, Jan-Erik Lundgren, Carl-Johan Thore
11:40	A250848	Bin Niu (DUT, China)	Design optimization of compliant mechanism considering strain responses Bin Niu, Xiaolong Liu, Mathias Wallin, Eddie Wadbro
12:00	A250819	Sierk Fiebig (Volkswagen AG, Germany)	Combination of stress sensitivities and the heuristic based topology Optimization with Integrated Casting Simulation in LEOPARD topo Sierk Fiebig, Thilo Franke, Ronald Bartz, Felix Köhler
12:20	A250821	Ahmad Bokhari (Umeå University, Sweden)	Topology optimization of a subwoofer Ahmad H. Bokhari, Martin Berggren, Daniel Noreland, Eddie Wadbro

Room: 207		Aerospace Design Optimization	
Monday			
Chair: Gang Li (DUT, China)			
Time	ID	Presenting Author	Title
14:00	A060545	Jianxiong Shi (NPU, China)	A concurrent topology optimization method of lattice and solid material for aircraft spoilers Jianxiong Shi, Longlong Song, Zhiguang Zhao, Xiang Qi, Tong Gao, Weihong Zhang
14:20	A060548	Xueying Qiu (NPU, China)	Structural design of composite rudders with thermo-elastic topology optimization Xueying Qiu, Dihuan Wu, Lei Tang, Weihong Zhang, Tong Gao, Guanghui Shi, Dongliang Quan
14:40	A060550	Yi Li (BUAA, China)	Index allocation of reusable rocket engine using multi-disciplinary optimization Yi Li, Bing Sun, Jie Fang, Kaiyang Li, Guobiao Cai
15:00	A060575	Longlong Song (NPU, China)	Coupled thermo-elastic topology optimization of casing components involving the load allocation constraint Longlong Song, Lei Tang, Weihong Zhang, Chengqi Zhang, Tong Gao

Room: 207 Monday		Aerospace Design Optimization	
Chair: Hiroshi Isakari (Nagoya University, Japan)			
Time	ID	Presenting Author	Title
16:20	A060759	Nozomu Kogiso (Osaka Prefecture University, Japan)	Multi-objective optimization for displacement magnifying structure Makoto Ito, Haruka Takasu, Nozomu Kogiso
16:40	A060645	Chunhui Fan (NPU, China)	A novel high-efficiency and lightweight multi-stage thermoelectric module with lattice layers Chunhui Fan, Tong Gao, Feng Gao, Liang Meng
17:00	A060656	Yiqing Zhao (NPU, China)	On the optimal design of an aero-engine compressor structure Yiqing Zhao, Pengchun Li, Jichao Cui, Huiping Pei, Tong Gao, Weihong Zhang
17:20	A060337	Neil Trivers (Queen's University, Canada)	Design optimization of a business aircraft seat considering manufacturability and certification Neil Trivers, Christopher Carrick, Il Yong Kim

Room: 207 Tuesday		Aerospace Design Optimization & Design under Uncertainty	
Chair: Kyung Choi (University of Iowa, USA)			
Time	ID	Presenting Author	Title
9:00	A060915	Cian Conlan-Smith (DTU, Denmark)	On the application of panel methods for shape optimization of aircraft wings Conlan-Smith Cian, Ramos-García Néstor, Ole Sigmund, Casper Schousboe Andreasen
9:20	A060353	Licong Zhang (NPU, China)	Performance analysis of advanced hypersonic aero-ballistic missile based on multidisciplinary design optimization Licong Zhang, Chunlin Gong
9:40	A030738	Jeongwoo Park (KAIST, Korea)	Selective bivariate dimension reduction method (DRM) to enhance accuracy and efficiency of most probable point (MPP)-based DRM Jeongwoo Park, Hyunkyoo Cho, Ikjin Lee
10:00	A030358	Jing Zheng (Hunan University, China)	Multi-scale robust topology optimization for dynamic structures with random and interval hybrid uncertainties Jing Zheng, Chao Jiang, Zhen Luo
10:20	A030942	Fernando Gomez (Illinois, USA)	Topology optimization of buildings subjected to stochastic dynamic base motion Fernando Gomez, Jr Billie F. Spencer

Room: 207		Design under Uncertainty	
Tuesday			
Chair: Samy Missoum (University of Arizona, USA)			
Time	ID	Presenting Author	Title
11:20	A030468	Young-Jin Kang (Pusan National University, Korea)	An integrated kernel density estimation with estimated bounded data for modeling unimodal and multimodal distributions Young-Jin Kang, Yoojeong Noh
11:40	A030371	Menghao Ping (Hunan University, China)	A frequency domain reliability analysis method for electromagnetic problems based on univariate dimension reduction method Menghao Ping, Xu Han, Chao Jiang
12:00	A030406	Kyung Choi (University of Iowa, USA)	Uncertainty quantification and statistical model validation for offshore jacket structure panel given limited test data and simulation model Min-Yeong Moon, Hyun-Seok Kim, Kangsu Lee, Byoungjae Park, Kyung Choi
12:20	A030489	Ryohei Takahashi (University of Tokyo, Japan)	Optimization of project design under management and technological risks using approximate dynamic programming Ryohei Takahashi, Toshihiro Obata, Ryu Funase, Shinichi Nakasuka
12:40	A030318	Fenfen Xiong (BIT, China)	Data-driven polynomial chaos expansion method with correlated input variables Qizhang Lin, Fenfen Xiong, Fenggang Wang

Room: 207		Design under Uncertainty	
Tuesday			
Chair: Kazuyuki Hanahara (Iwate University, Japan)			
Time	ID	Presenting Author	Title
14:00	A030595	Samy Missoum (University of Arizona, USA)	Stochastic optimization of a chain of resonators Samy Missoum, Seyed Saeed AhmadiSoleymani
14:20	A030625	Yangjun Luo (DUT, China)	Quantification of field uncertainties based on a non-probabilistic bounded-field model Yangjun Luo, Junjie Zhan, Jian Xing, Zhan Kang
14:40	A030703	Haowen Luo (BUAA, China)	Uncertainty analysis and design optimization of solid rocket motors with finocyl grain Haowen Luo, Hao Zhu, Pengcheng Wang, Guobiao Cai
15:00	A030711	Sungjin Kim (Korea Aerospace University, Korea)	Incorporation of probability of detection in reliability centered maintainability analysis of aircraft structural parts design Sungjin Kim, Hee-Seong Kim, Joo-Ho Choi

Room: 207		Design Optimization	
Tuesday			
Chair: Janos Logo (Budapest University of Technology and Economics, Hungary)			
Time	ID	Presenting Author	Title
16:20	A050662	Joe Alexandersen (DTU, Denmark)	On optimal cooling fins and their castability Joe Alexandersen, Ole Sigmund, Niels Skat Tiedje
16:40	A050615	Chunna Li (NPU, China)	Efficient surrogate-based optimization through adaptive infilling Chunna Li, Yunwei Zhang, Chunlin Gong
17:00	A050599	Zhao Liu (SJTU, China)	Mesostructure optimization for Additive Manufacturing based on multi-fidelity modeling and particle swarm optimization algorithm Zhao Liu, Hongyi Xu, Ping Zhu
17:20	A050769	Navina Waschinsky (TU Dortmund, Germany)	Optimization of diffusion driven degradation processes Navina Waschinsky, Franz-Joseph Barthold, Andreas Menze
17:40	A050338	Michael Nucci (Queen's, Canada)	Comparison of design domain choices and their effects on manufacturable optimization outputs in a monorail ceiling structure Michael Nucci, Christopher Carrick, Il Yong Kim

Room: 207		Design Optimization	
Wednesday			
Chair: Christian Gogu (Universite de Toulouse, France)			
Time	ID	Presenting Author	Title
9:00	A050771	Renjing Gao (DUT, China)	Design of a magneto-mechanical coupled multi-stable piezoelectric energy harvester Renjing Gao, Yahui Peng, Jian Zhao
9:20	A050708	Shengwei Fu (BJUT, China,)	Modal exchange based on simplified rocket model Shengwei Fu, Jiazheng Du
9:40	A050757	Fabian Guhr (TU Dortmund, Germany)	Damage reduced air bending utilizing load optimization Fabian Guhr, Franz-Joseph Barthold
10:00	A050668	Masakazu Kobayashi (Toyota TI, Japan)	Optimization of similarity indices among aesthetic elements of different types of products for the recommendation system based on the past kansei evaluation results Masakazu Kobayashi

Room: 207		Design Optimization	
Wednesday			
Chair: Shinji Nishiwaki (Kyoto University, Japan)			
Time	ID	Presenting Author	Title
11:20	A050976	Ming Li (DUT, China)	Design optimization of membrane to achieve wrinkle-free performance Ming Li, Kexi Zhu, Zhan Kang, Yangjun Luo
11:40	A050823	Xudong Yu (BUAA, China)	Rapid and non-destructive diagnosis of complex-shaped composite components: towards design optimization for minimizing damage in aerostructures Xudong Yu, Zheng Fan, Shenyan Chen, Hai Huang
12:00	A050827	Xipeng Ying (DUT, China)	Theory and application of light-weight design of umbilicals Ying Xipeng, Yan Jun, Zhou Baoshun, Hu Haitao, Yang Zhixun
12:20	A050926	Klaus Hoshcke (Fraunhofer EMI, Germany)	A topology optimization based design model for enhanced energy absorption and fail-safe behaviour Klaus Hoshcke, Konstantin Kappe, Marius Bierdel, Werner Riedel, Stefan Hiermaier

Room: 207		Design Optimization	
Wednesday			
Chair: Shenyan Chen (BUAA, China)			
Time	ID	Presenting Author	Title
14:00	A010643	Seonghyeok Yang (KAIST, Korea)	An efficient optimization method for a solar thermal plant with thousand variables Seonghyeok Yang, Kyungeun Lee, Ikjin Lee
14:20	A050993	Yingliang Zhao (DUT, China)	Optimization of drug release by drug-eluting stents with biodegradable polymer coating Yongxin Jia, Yingliang Zhao, Hongxia Li, Danyang Zhao, Minjie Wang
14:40	A050300	Siyuan Wu (Tongji, China)	Optimization design of mtmd for radial gates Siyuan Wu, Zhou Wu, Zhengzhong Wang, Huanjun Jiang
15:00	A050310	Yuta Ozeki (Nagaoka UT, Japan)	Shape optimization analysis in viscous flow fields considering rotational body based on the adjoint variable and the finite element methods Yuta Ozeki, Takahiko Kurahashi, Eiji Katamine
15:20	A050311	Kenta Yoshihara (Nagaoka UT, Japan)	The random tunneling algorithm for identification of cavity position in a concrete using surface displacement in hammering inspection Kenta Yoshihara, Takahiko Kurahashi, Yuki Murakami, Shigehiro Toyama, Fujio Ikeda, Tetsuro Iyama, Ikuo Ihara

Room: 207 Wednesday		Design Optimization	
Chair: Eric de Sturler (Virginia Tech., USA)			
Time	ID	Presenting Author	Title
16:20	A050424	Yunhui Yang (BUAA, China)	A fuzzy optimization model for bending-dominated and stretching-dominated lattice materials Yunhui Yang, Libin Zhao
16:40	A050332	Martin Berggren (Umeå University, Sweden)	3D acoustic shape optimization using cutfem methods, accounting for visco-thermal boundary-layer losses Martin Berggren, Anders Bernland, André Massing, Eddie Wadbro
17:00	A050457	Kentaro Hayakaw (Kyoto University, Japan)	Optimization approach to form generation of rigid-foldable origami for deployable roof structure Kentaro Hayakawa, Makoto Ohsaki
17:20	A050671	Mai Nonogawa (Asics Corporation, Japan)	Optimum design of running shoes with desired deformation property Mai Nonogawa, Kenzen Takeuchi, Hideyuki Azegami
17:40	A050336	Christopher Carrick (Queen's, Canada)	Packaging optimization using the dynamic vector fields method Christopher Carrick, Il Yong Kim

Room: 207 Thursday		Design Optimization & Evolutionary & Heuristic Optimization	
Chair: Anders Klarbring (Linköping University, Sweden)			
Time	ID	Presenting Author	Title
9:00	A260871	Peter M. Clausen (Dassault Systemes, Germany)	Trends for industrial optimization: Integrated workflow for designers, for simulation experts and for scalable modeling Peter M. Clausen, Kingshuk Bose, Pascal Hebrard, Rong Fan, Anton Jurinic, Jaewon Jang, Vladimir Belsky, Claus B. W. Pedersen
9:20	A260809	Keita Kambayashi (Osaka Prefecture University, Japan)	Multiobjective topology optimization of internal structure of multi-layered morphing flap as compliant mechanism Keita Kambayashi, Nozomu Kogiso, Takayuki Yamada, Kazuhiro Izui, Shinji Nishiwaki, Masato Tamayama
9:40	A050409	Wontaek Lee (Yonsei University, Korea)	Design of 5G band patch antenna using the genetic algorithm and the On/Off method Wontaek Lee, Jeonghoon Yoo
10:00	A130357	Guanxin Huang (Guangdong UT, China)	Hybrid global optimization algorithm by combining differential evolution, adaptive kriging model and gradient based searching methods Guanxin Huang, Zhijun Yang, Weidong Zhu
10:20	A130384	Weibai Li (Swinburne UT, Australia)	Topological design and experimental verification of 3D phononic crystals for acoustic transmission Weibai Li, Fei Meng, Xiaodong Huang

Room: 207		Evolutionary & Heuristic Optimization & Application in Industry	
Thursday			
Chair: Peter M. Clausen (Dassault, Denmark)			
Time	ID	Presenting Author	Title
11:20	A130617	Julien Pelamatti (Université Paris Saclay, France)	Surrogate model-based strategy for variable-size design space optimization problem Julien Pelamatti, Loïc Brevault, Mathieu Balesdent, El-Ghazali Talbi, Yannick Guerin
11:40	A130908	Wouter Dillen (KU Leuven, Belgium)	Importance sampling-based performance assessment of metaheuristic algorithms for structural optimization taking into account the influence of control parameter values Wouter Dillen, Geert Lombaert, Mattias Schevenels
12:00	A130922	Kazuo Yonekura (IHI Corporation, Japan)	Deep reinforcement learning based design exploration framework in an application to turbine blade Kazuo Yonekura, Hitoshi Hattori
12:20	A050488	Zheyi Zhang (Hunan University, China)	Winding orientation optimization design of thin-walled composite tubes Zheyi Zhang, Xu Han, Shujuan Hou

Room 208A

Room: 208A		Inverse Problems and Parametric Identification	
Monday			
Chair: Byeng D. Youn (Seoul National University, Korea)			
Time	ID	Presenting Author	Title
11:20	A160620	Shinjiro Ono (Nagoya University, Japan)	Identification of muscle activity in tongue's motion through medical image data Shinjiro Ono, Hideyuki Azegami, Kenzen Takeuchi, Yukihiro Michiwaki, Takahiro Kikuchi, Keigo Hanyuu, Testu Kamiya
11:40	A160463	Julius Fergy T. Rabago (Nagoya University, Japan)	On the ill-posedness and regularization of the shape optimization formulation concerning a geometry identification problem Julius Fergy T. Rabago, Hideyuki Azegami
12:00	A160988	Wongon Kim (Seoul National University, Korea)	Statistical model calibration and refinement of an automotive sub-frame model for estimating crack locations Wongon Kim, Guesuk Lee, Hyejeong Son, Byeng D. Youn
12:20	A160518	Yong Zhang (DUT, China)	Identification method of parameter for jointed characteristics using particle swarm optimization Yong Zhang, Yan Zhao, Huajiang Ouyang

Room: 208A		Inverse Problems and Parametric Identification	
Monday			
Chair: Peng Wei (SCUT, China)			
Time	ID	Presenting Author	Title
14:00	A160491	Ruben Andres Salas (University of São Paulo, Brazil)	Acoustic Tomography by Using Topology Optimization Ruben Andres Salas, Wilfredo Montealegre Rubio, Emilio C. N. Silva
14:20	A160532	Liang Meng (NPU, China)	Reduced shape-space approach to material characterization: instrumented indentation test case Liang Meng, Piotr Breittkopf, Balaji Raghavan, Weihong Zhang
14:40	A160395	Ehsan Adeli	Parameter identification for a viscoplastic model with damage and effect of conditions on results using bayesian approaches Ehsan Adeli

Room: 208A Monday		Multidisciplinary Design Optimization	
Chair: Anikó Csébfalvi (University of Pécs, Hungary)			
Time	ID	Presenting Author	Title
16:20	A170346	Kohei Shintani (Toyota Motor Corporation, Japan)	An application of feasible design exploring method to full vehicle simulation Kohei Shintani, Atsuji Abe, Yasushi Yamamoto
16:40	A170349	Anwen Cai (BJUT, China)	Coarse grained molecular dynamics of epoxy resin based on genetic algorithms Huiping Yu, Anwen Cai
17:00	A170392	Ruixiang Zheng (Michigan-SJTU, China)	A new global solver for solving disciplinary optimization subproblems in a structural multidisciplinary design optimization Problem Ruixiang Zheng, Yijie Wang, Mian Li
17:20	A170469	Yu Zhang (NPU, China)	Static aeroelastic effects study on aerodynamic performance of large transport aircraft wings Yu Zhang, Junqiang Bai, Feng Qu, Meng He, Jiahua Liang
17:40	A170462	Hao Ren (CAS, China)	Optimization of MRI gradient coil on non-developable surface Hao Ren, Hui Pan, Feng Jia, Jan G. Korvink, Zhenyu Liu

Room: 208A Tuesday		Multidisciplinary Design Optimization	
Chair: Niels Aage (DTU, Denmark)			
Time	ID	Presenting Author	Title
9:00	A170441	Mathilde Boissier (Ecole Polytech., France)	Laser path optimization for Additive Manufacturing Mathilde Boissier, Grégoire Allaire, C. Tournier
9:20	A170486	Liqiao Fang (Soyotec Limited, China)	Research and improved bliss/rs multidisciplinary optimization framework Zhengming Qian, Lizhang Zhang, Liqiao Fang, Yuyang Lai
9:40	A170577	Sihao Qian (Xidian University, China)	On topological optimization of heat sink for active phased array antennas by considering structural, thermal and electromagnetic disciplines Sihao Qian, Baoyan Duan, Hongjun Cao
10:00	A170641	John Jasa (University of Michigan, USA)	Coupled design of a supersonic engine and thermal system using gradient-based optimization John P. Jasa, Benjamin J. Brelje, Charles A. Mader, Joaquim R. R. A. Martins

Room: 208A		Multidisciplinary Design Optimization	
Tuesday			
Chair: Pedro Coelho (UNIDEMI-UNL, Portugal)			
Time	ID	Presenting Author	Title
11:20	A170700	Niels Aage (DTU, Denmark)	Shape optimization for electro-acoustic-mechanical micro systems Niels Aage
11:40	A170649	Yongcun Zhang (DUT, China)	An effective method for improving the phase change heat transfer performance by enhancing natural convection Yongcun Zhang, Jiayou Wang, Guangpeng Ma, Shutian Liu
12:00	A170718	Kristian E Jensen (COMSOL Multiphysics, Denmark)	Designing tesla microvalves using topology, shape, and parameter optimization Kristian E. Jensen
12:20	A170803	Fábio Conde (UNIDEMI-UNL, Portugal)	Optimization of unidirectional hybrid polymer composites using a spring element model Fábio Conde, Pedro Coelho, Rodrigo Tavares, José Guedes, Hélder Rodrigues, Pedro Camanho
12:40	A170852	Andrew Brodie (BMW AG, Germany)	Coupled thermo-mechanical shape optimization using vertex morphing Andrew Brodie, Majid Hojjat, Kai-Uwe Bletzinger

Room: 208A		Multidisciplinary Design Optimization	
Tuesday			
Chair: Piotr Breilkopf (Universite de Technologie de Compiègne, France)			
Time	ID	Presenting Author	Title
14:00	A170775	Pengcheng Wang (BUAA, China)	A two-phase design optimization based on analytic target cascade and its application on hybrid rocket motor powered launch vehicles Pengcheng Wang, Hui Tian, Hao Zhu, Guobiao Cai
14:20	A170892	Pratik Kanade (3DPLM Software Solution Ltd., India)	Multidisciplinary parametric optimization of cooling channel cross-section for battery thermal management Pratik Kanade, Youngwon Hahn
14:40	A170694	Zhijun Wang (TU/e, Netherlands)	Coupled aero-structural shape and topology optimization of hawt rotor blades Zhijun Wang, Akke S. J. Suiker, Hèrm Hofmeyer, Twan van Hooff, Bert Blocken
15:00	A170949	Sergey Kuznetsov (MIT, USA)	Optimal design of magnetic source distributions for diamagnetic and superconducting levitation Sergey Kuznetsov, James K Guest

Room: 208A		Multidisciplinary Design Optimization& Multi-Objective Optimization& Optimal control	
Tuesday			
Chair: Bin Niu (DUT, China)			
Time	ID	Presenting Author	Title
16:20	A170866	Fabian Wein (Nürnberg, Germany)	Topology optimization of electromagnetic devices Fabian Wein, Philipp Seebacher, Katharina Angermeier, Michael Stingl, Andreas Rosskopf, Manfred Kaltenbacher
16:40	A180957	Zhongpu Zhang (Western Sydney, Australia)	Optimal multiobjective design of 3D-printed ceramic scaffolds Zhongpu Zhang, Ali Entezari, Puchen Li, Chunhui Yang, Qing Li
17:00	A200379	Kun Yan (DUT, China)	Introduction of two new indices for free vibration suppression by structural optimization Yan Kun, Boping Wang
17:20	A170845	Wei Wang (Xidian University, China)	A method for conjugate heat transfer of three-dimension cooling plate combined with shape optimization and topology optimization Xiwei Tian, Wei Wang

Room: 208A		Optimization algorithms	
Wednesday			
Chair: Akira Saito (Meiji University, Japan)			
Time	ID	Presenting Author	Title
9:00	A010322	Alemseged Weldeyesus (The University of Edinburgh, UK)	On solving large-scale truss layout optimization problems with constraints on global stability Alemseged Gebrehiwot Weldeyesus, Jacek Gondzio, Linwei He, Matthew Gilbert, Paul Shepherd
9:20	A010442	Lothar Harzheim (Opel Automobile GmbH, Germany)	Difference based equivalent static load method (DiESL), an extension of the ESL method to improve the nonlinear approximation quality J. Triller, Rainer Immel, Alexander Timmer, Lothar Harzheim
9:40	A010570	Stefano Chiapedi (TU München, Germany)	Ensuring local optimality of solution spaces for early phase crashworthiness design Stefano Chiapedi, Andreas Koukal, Fabian Duddeck
10:00	A010713	Alexander Timmer (Opel Automobile GmbH, Germany)	The linear interpolation approach (LInA), an extension of the successive response surface method Alexander Timmer, Rainer Immel, Lothar Harzheim

Room: 208A		Optimization algorithms & Inverse Problems	
Wednesday			
Chair: Lothar Harzheim (Opel Automobile GmbH, Germany)			
Time	ID	Presenting Author	Title
11:20	A160644	Ryo Sugai (Meiji University, Japan)	Inverse identification of crack location and length using modal parameters Ryo Sugai, Akira Saito
11:40	A010829	Takahiro Fujii (Kagawa University, Japan)	Development of range exploring genetic algorithms Takahiro Fujii, Atsuto Hashimoto, Masao Arkawa, Tetsuro Butsuen
12:00	A010867	Lukas Pflug (Nürnberg, Germany)	A new stochastic descent method for the efficient solution of structural optimization problems with infinitely many load cases Lukas Pflug, Niklas Bernhardt, Michael Stingl
12:20	A010655	Tianshan Dong (BUAA, China)	Improved genetic algorithm with two-level approximation for topology and sizing optimization of large-scaled frame structures Tianshan Dong, Shenyan Chen
12:40	A010730	Ferenc J. Szabó (University of Miskolc, Hungary)	Iteration history analysis of evolutionary type optimization algorithms Ferenc J. Szabó

Room: 208A		Sensitivity Analysis Methods and Applications	
Wednesday			
Chair: Jun Yan (DUT, China)			
Time	ID	Presenting Author	Title
14:00	A220382	Qi Wang (DUT, China)	Mapping-based sensitivity analysis method for quasi-periodic metallic array Qi Wang, Renjing Gao, Shutian Liu
14:20	A220452	Shaobin Liu (Altair, USA)	Sensitivity analysis and optimization of transient responses Shaobin Liu, Narayanan Pagaldipti
14:40	A220806	Jan Liedmann (TU Dortmund, Germany)	Variational sensitivity analysis of elastoplastic structures applied to optimal shape of specimens Jan Liedmann, Franz Joseph Barthold
15:00	A220868	Can Xu (SJTU, China)	Vine-copula-based hierarchical statistical sensitivity analysis in multilevel systems with multidimensional correlations Can Xu, Zhao Liu, Ping Zhu

Room: 208A		Sensitivity Analysis Methods and Applications & High Performance Parallel Computing and Visualization Methods	
Wednesday			
Chair: Sierk Fiebig (Volkswagen AG, Germany)			
Time	ID	Presenting Author	Title
16:20	A150712	Jun Yan (DUT, China)	Multi-scale concurrent optimization of lightweight lattice structures based on parallel topology optimization framework Jun Yan, Tao Yu, Qi Zhang, Junhui Guo, Qiang Zhou
16:40	A220888	Myung-Jin Choi (Seoul National University, Korea)	Isogeometric design optimization of lattice structures for negative Poisson's ratio Myung-Jin Choi, Se-Hyun Kang, Myung-Hoon Oh, Bonyong Koo, Seonho Cho
17:00	A220890	Kazem Ghabraie (Waurm Ponds, Australia)	High order sensitivity analysis for topology optimisation Kazem Ghabraie
17:20	A150623	Jian Xing (DUT, China)	A global optimization strategy based on expected improvement criterion and parallel computing Jian Xing, Yangjun Luo
17:40	A220519	Qiming Liu (Hebei UT, China)	A reconstruction approach of sensitivity index based on the decomposition of high-order sensitivity indices and its application in occupant restraint system Qiming Liu

Room: 208A		Geometry Modelling Technics& High Performance Parallel Computing and Visualization Methods	
Thursday			
Chair: Fred van Keulen (TUD, Netherlands)			
Time	ID	Presenting Author	Title
9:00	A140842	Shenyan Chen (BUAA, China)	Model reconstruction method for topology optimization results Shenyan Chen, Yanwu Zheng
9:20	A140750	Felix Wohlgemuth (TU Dortmund, Germany)	Controlling physical properties on interfaces using parametrised level set methods and extended finite element method Felix Wohlgemuth, Franz-Joseph Barthold
9:40	A140931	Alejandro Aragón (TUD, Netherlands)	Crisp-boundary level-set optimization of phononic crystals using the interface-enriched generalized finite element method Sanne J. van den Boom, Alejandro M. Aragón, Fred van Keulen
10:00	A150447	Karim Hamza (Toyota Motors North America R&D, USA)	An approach for characterizing scenarios of interest in parameterized pareto plots: application to competitiveness assessment of light-duty plug-in vehicles Karim Hamza, Kenneth P. Laberteaux, Kang-Ching Chu, John Willard

Room: 208A		Dimensionality Reduction	
Thursday			
Chair: Tamara Bechtold (Jade University, Germany)			
Time	ID	Presenting Author	Title
11:20	A110433	Piotr Breitkopf (UT Compiègne, France)	Highly intrusive low-dimensional parametric model for structural crashworthiness optimization P. Phalippou, S. Bouabdallah, Piotr Breitkopf, P. Villon
11:40	A110444	Manyu Xiao (NPU, China)	Reduced-order topology optimization for additive manufacturing Manyu Xiao, Dongcheng Lu, Piotr Breitkopf, Weihong Zhang
12:00	A110582	David Gaudrie (Groupe PSA, France)	From CAD to eigenshapes for surrogate-based optimization David Gaudrie, Rodolphe Le Riche, Victor Picheny, Benoît Enaux, Vincent Herbert
12:20	A110744	Siyang Hu (Jade University of Applied Science, Germany)	Fast topology optimization for resonating structures via generalized incremental frequency method and modal superposition-based model order reduction Siyang Hu, Zhenyu Liu, Tamara Bechtold

Room 208B

Room: 208B		Emerging Methods and Applications	
Monday			
Chair: Axel Schumacher (Wuppertal, Germany)			
Time	ID	Presenting Author	Title
11:20	A120498	Makoto Ohsaki (Kyoto University, Japan)	Machine learning for selection of approximate optimal placement of braces of plane frames under static loads Makoto Ohsaki, Toshiaki Kimura, Kazuma Sakaguchi
11:40	A120618	Julien Pelamatti (Université Paris Saclay, France)	Grouped hierarchical kernel for the efficient global optimization of variable-size design space problems Julien Pelamatti, Loïc Brevault, Mathieu Balesdent, El-Ghazali Talbi, Yannick Guerin
12:00	A120680	Mingi Kim (KAIST, Korea)	Determination of the optimal resonant condition for multi-receiver wireless power transfer system Seung Beop Lee, Mingi Kim, In Gwon Jang
12:20	A190910	Sjonnie Boonstra (TU/e, Netherlands)	Co-evolutionary design processes applied to building spatial design optimization Sjonnie Boonstra, Koen van der Blom, Hèrm Hofmeyer, Michael T. M. Emmerich

Room: 208B		Novel Methods for Modelling, Simulation, and Design	
Monday			
Chair: Erik Lund (Aalborg, Denmark)			
Time	ID	Presenting Author	Title
14:00	A190319	Axel Schumacher (Wuppertal, Germany)	Submodel-based multi-level optimization of crash structures using statistically generated universal correlations of the different levels Axel Schumacher, Harman Singh, Sven Wielens
14:20	A250878	Weisheng Zhang (DUT, China)	Explicit structural topology optimization via IGA Weisheng Zhang, Dingding Li, Xu Guo, Sung-Kie Youn
14:40	A190839	Jorge Luis Barrera Cruz (Colorado, USA)	On the combination of level-set-XFEM and density-based topology optimization Jorge Luis Barrera Cruz, Markus Geiss, Kurt Karl Maute
15:00	A190965	Kazuyuki Hanahara (Iwate University, Japan)	An approach to abstraction-oriented optimal path design Kazuyuki Hanahara

Room: 208B		Novel Methods for Modelling, Simulation, and Design	
Monday			
Chair: Jianbin Du (Tsinghua, China)			
Time	ID	Presenting Author	Title
16:20	A120679	Akihiro Takezawa (Hiroshima University, Japan)	A method of optimizing lattice density for effective liquid cooling based on Darcy-Forchheimer law Akihiro Takezawa, Xiaopeng Zhang, Mitsuru Kitamura
16:40	A190631	Jianhua Rong (Changsha UST, China)	A novel optimization methodology of the structural topology with minimum length scale controls of real and void phase materials Xuanpei Rong, Jianhua Rong, Shengning Zhao, Fangyi Li
17:00	A190767	Kai Wang (NPU, China)	High-fidelity aero-structural simulation of wing-body configurations Kai Wang, Zhonghua Han, Keshi Zhang, Wenping Song
17:20	A190768	Karoly Jarmai (University of Miskolc, Hungary)	A novel hybrid algorithm with application in the kinematic-based structural optimization of robots Hazim Nasir Ghafil, Károly Jármai

Room: 208B		Robust and Reliability-Based Design Optimization	
Tuesday			
Chair: Glaucio Paulino (GIT, USA)			
Time	ID	Presenting Author	Title
9:00	A210298	Yoshihiro Kanno (The University of Tokyo, Japan)	Bridging reliability-based design optimization and robust design optimization: a data-driven approach Yoshihiro Kanno
9:20	A210315	Hongxin Wang (Hunan University, China)	The robust fail-safe topology designs based on the von Mises stress Hongxin Wang, Jie Liu, L. Xue, Guilin Wen
9:40	A210363	Anikó Csébfalvi (University of Pécs, Hungary)	A compliance-function-shape-oriented robustness measure for the truss sizing problem with uncertain loading directions Anikó Csébfalvi, János Lógó
10:00	A210364	Guohai Chen (DUT, China)	Reliability-based optimization of viscous dampers for hysteretic frame structures under near-fault ground motions Guohai Chen, Dixiong Yang
10:20	A210401	Hector Jensen (Federico Santa Maria University, Chile)	An efficient markov sampling method for reliability-based design optimization of dynamical systems under stochastic excitation Hector Jensen, Danko Jerez, Franco Mayorga, Jianbing Chen

Room: 208B		Robust and Reliability-Based Design Optimization	
Tuesday			
Chair: Ikjin Lee (KAIST, Korea)			
Time	ID	Presenting Author	Title
11:20	A210404	Yanwen Xu (UIUC, USA)	An adaptive sensitivity analysis strategy for RBDO using surrogate models Yanwen Xu, Pingfeng Wang
11:40	A210410	Chen Jiang (HUST, China)	The real-time error based Kriging modeling method for time-dependent reliability analysis Chen Jiang, Haobo Qiu, Liang Gao, Dapeng Wang
12:00	A210492	Janos Logo (Budapest UTE, Hungary)	Reliability based elasto-plastic topology optimization Janos Logo, Piotr Tazowski, Bartlomiej Blachowski
12:20	A210505	Fenfen Xiong (BIT, China)	Efficient multidisciplinary uncertainty propagation considering aleatory and epistemic uncertainties Chengkun Ren, Fenfen Xiong, Fenggang Wang

Room: 208B		Robust and Reliability-Based Design Optimization	
Tuesday			
Chair: Masao Arakawa (Kagawa University, Japan)			
Time	ID	Presenting Author	Title
14:00	A210475	Makoto Yamakawa (Tokyo University of Science, Japan)	Robust design optimization of multiple tuned mass dampers via multi-order statistics approach Makoto Yamakawa
14:20	A210709	Saekyeol Kim (Hanyang, Korea)	Reliability-based design optimization of a pick-up device of a manganese nodule miner using correlated and grouped manganese nodule data Saekyeol Kim, Su-Gil Cho, Jihoon Kim, Tae-Hee Lee, Sanghyun Park, Sup Hong, Hyung-Woo Kim, Cheon-Hong Min, Jong-Su Choi, Young-Tak Ko, Sang-Bum Chi
14:40	A210453	Tonghui Cui (UIUC, USA)	Reliability-based co-design of horizontal axis wind turbines with lattice towers Tonghui Cui, Pingfeng Wang, James T. Allison
15:00	A210422	Jinhao Zhang (HUST, China)	An efficient method combining subset simulation importance sampling and kriging for reliability analysis under mixed uncertainties Jinhao Zhang, Mi Xiao, Liang Gao
15:20	A240850	Zoltan Bihari (University of Miskolc, Hungary)	Defining and testing the optimal profile for roller freewheels Zoltan Bihari

Room: 208B		Robust and Reliability-Based Design Optimization	
Tuesday			
Chair: Hector Jensen (Federico Santa Maria University, Chile)			
Time	ID	Presenting Author	Title
16:20	A210685	Masao Arakawa (Kagawa University, Japan)	Satisficing method for robust design considering worst case optimization Takahisa Kobayashi, Masao Arakawa, Tetsuro Butsuen
16:40	A210544	Jianbing Chen (Tongji, China)	Structural optimization considering dynamic reliability constraints via probability density evolution method Jiashu Yang, Jianbing Chen, Jie Li, Hector Jensen
17:00	A210556	Lei Wang (BUAA, China)	Sequential optimization and reliability assessment for multidisciplinary systems with fuzzy uncertainty Lei Wang, Chuang Xiong, Guanhua Liu
17:20	A210624	Yanan Xu (Tongji, China)	Robust topology optimization of ply orientation for fiber reinforced plastic (FRP) structures under loading uncertainties. Yanan Xu, Yunkai Gao, Chi Wu, Jianguang Fang, Qing Li
17:40	A210598	Naichun Liu (The University of Sydney, Australia)	Robust fatigue optimisation of coronary stents for biological and material uncertainties Naichun Liu, Guangyong Sun, Michael Swain, Qing Li

Room: 208B		Robust and Reliability-Based Design Optimization	
Wednesday			
Chair: Makoto Yamakawa (Tokyo University of Science, Japan)			
Time	ID	Presenting Author	Title
9:00	AS0001	Glaucio H. Paulino (GIT, USA)	Stress constrained topology optimization: a clustering-free approach Glaucio H. Paulino
9:20	A210737	Xiaoyi Zhou (Tongji, China)	Robust design optimization of variable angle tow composite plates for maximum buckling load in the presence of uncertainties Xiaoyi Zhou, Xin Ruan
9:40	A230984	Yong Chang Shin (Seoul National University, Korea)	Design optimization of a locally resonant metastructure for enhanced energy harvesting: standing wave manipulation approach Yong Chang Shin, Heonjun Yoon, Soo-Ho Jo, Byeng D. Youn
10:00	A210755	Marcos Valdebenito (Santa Maria University, Chile)	Development of an optimized estimator for probability sensitivity estimation Marcos A. Valdebenito, Iván V. González, Héctor A. Jensen
10:20	A210843	Sidhant Thole (Indian Institute of Technology, India)	Identifying robust design spaces using self organizing maps Thole Sidhant Pravinkumar, Palaniappan Ramu

Room: 208B		Robust and Reliability-Based Design Optimization	
Wednesday			
Chair: Yoshihiro Kanno (University of Tokyo, Japan)			
Time	ID	Presenting Author	Title
11:20	A210760	Hongjun Cao (Xidian University, China)	Structural probability analysis based on maximum entropy principle, fractional moments and lognormal kriging Hongjun Cao, Bo Han
11:40	A230986	Soo-Ho Jo (Seoul National University, Korea)	Design optimization of phononic crystals with a point defect for resonance frequency matching Soo-Ho Jo, Heonjun Yoon, Yong Chang Shin, Byeng D. Youn
12:00	A210830	Yi Wu (Hunan University, China)	Robust topology optimization of thermal structure under non-probabilistic spatially varying temperature field Yi Wu, X. Y. Lin, Z. C. He, Eric Li, H. X. Jiang
12:20	A250396	Dong Wang (NPU, China)	An efficient approach for incorporating loading position uncertainty in structural robust topology optimization Dong Wang, W. F. Gao

Room: 208B		Robust and Reliability-Based Design Optimization	
Wednesday			
Chair: Karoly Jarmai (University of Miskolc, Hungary)			
Time	ID	Presenting Author	Title
14:00	A070985	Heonjun Yoon (Seoul National University, Korea)	Can deep learning be used for dispersion engineering of phononic crystals Heonjun Yoon, Hyeon Bae Kong, Soo-Ho Jo, Yong Chang Shin, Byeng D. Youn
14:20	A210816	Xuchun Ren (Georgia Southern University, USA)	Reliability-based topology optimization based on the dimensional decomposition method Xuchun Ren, Xiaodong Zhang
14:40	A210477	Peng Hao (DUT, China)	Reliability-based design optimization of composite structures via isogeometric analysis Peng Hao, Yutian Wang, Xuanxiu Liu, Bo Wang, Gang Li
15:00	A210963	Jinhu Cai (BUAA, China)	Robust concurrent topology optimization of macrostructure and material microstructure under multiple-uncertainty load cases Jinhu Cai, Chunjie Wang
15:20	A210955	Hae Chang Gea (Southwest Jiaotong University, China)	The worst loading case identification under an unknown-but-bounded loading condition at uncertain location JianTao Liu, Hae Chang Gea

Room: 208B		Robust and Reliability-Based Design Optimization & Topology Optimization	
Wednesday			
Chair: Nozomu Kogiso (Osaka Prefecture University, Japan)			
Time	ID	Presenting Author	Title
16:20	A210856	Yan Zeng (DUT, China)	New criteria for estimation of computational accuracy of reliability analysis based on maximum entropy method Yan Zeng, Yixuan Wang, Gang Li, Wanxin He
16:40	A210742	Zunyi Duan (KAIST, Korea)	Multiscale reliability-based design optimization of composite frames for minimum cost with structural compliance and manufacturing constraints Zunyi Duan, Yongsu Jung, Ikjin Lee, Jun Yan
17:00	A210861	Yixuan Wang (DUT, China)	Extended maximum entropy method based on fractional moments for reliability analysis Yixuan Wang, Yan Zeng, Gang Li, Wanxin He
17:20	A250987	Junpeng Zhao (Seoul National University, Korea)	An efficient frequency response analysis method for structural topology optimization under harmonic excitation Junpeng Zhao, Byeng D. Youn
17:40	A190977	Jesper Christensen (Coventry University, UK)	Development of an automated post-processor for sheet metal component manufacturing Jesper Christensen, Maninder Singh Sehmi

Room: 208B		Robust and Reliability-Based Design Optimization & Topology Optimization	
Thursday			
Chair: Helder Rodrigues (Instituto Superior Tecnico, Portugal)			
Time	ID	Presenting Author	Title
9:00	AS0003	Gil Ho Yoon (Hanyang, Korea)	Development of a shadow density filter for molding manufacturability Gil Ho Yoon
9:20	A210862	Wanxin He (DUT, China)	A time-variant reliability analysis method based on an improved fractional moment-based maximum entropy method Wanxin He, Gang Li, Yan Zeng, Yixuan Wang
9:40	A160989	Hyejeong Son (Seoul National University, Korea)	Optimization-based model calibration considering model form uncertainty to improve computational predictions of vibrational behaviors Hyejeong Son, Wongon Kim, Guesuk Lee, Byeng D. Youn

Room 212A

Room: 212A		Topology Optimization	
Monday			
Chair: James K. Guest (Johns Hopkins, USA)			
Time	ID	Presenting Author	Title
11:20	A250833	Mohamed Tarek Mohamed (New South Wales, Australia)	TopOpt.jl: An efficient and high-performance topology optimization package in the Julia programming language Mohamed Tarek Mohamed
11:40	A250633	Jaewook Lee (GIST, Korea)	Topology optimization of functionally graded fiber-reinforced composite for compliant mechanism design Jaewook Lee, Tsuyoshi Nomura, Ercan M. Dede
12:00	A250837	Marek Tyburec (TU Prague, Czech)	Optimization of modular truss structures composed of wang tiles Marek Tyburec, Jan Zeman, Matěj Lepš
12:20	A250875	Shan Jiang (DUT, China)	Stress-based topology optimization for shell structure using combined Moving Morphable Void-Isogeometric approach Shan Jiang, Weisheng Zhang, Xu Guo, Sung-Kie Youn
12:40	A250841	Haitao Ma (Guangzhou University, China)	Improving the overall performance of continuum structures: a topology optimization model considering stiffness, strength and stability Xingjun Gao, Yingxiong Li, Haitao Ma, Gongfa Chen

Room: 212A		Topology Optimization	
Monday			
Chair: Martin Bendsoe (DTU, Denmark)			
Time	ID	Presenting Author	Title
14:00	A250817	Eddie Wadbro (Umeå University, Sweden)	On using a zero lower bound on the physical density in material distribution topology optimization Eddie Wadbro, Quoc Khanh Nguyen
14:20	A250853	Simon Thomas (University of Sydney, Australia)	Topology optimization for periodic multi-component structures with stiffness and frequency criteria Simon Thomas, Qing Li
14:40	A250869	Federico Ferrari (DTU, Denmark)	Large scale topology optimization with buckling constraints Federico Ferrari, Ole Sigmund
15:00	A250886	Sandilya Kambampati (UCSD, USA)	Efficient large-scale level set topology optimization using reanalysis concepts Sandilya Kambampati, Lei Li, Oded Amir, H. Alicia Kim
15:20	A250840	Anderson Pereira (Pontifical Catholic University of Rio de Janeiro, Brazil)	Beyond triangles and quads: virtual element method (VEM)-based topology optimization Anderson Pereira, Heng Chi, Ivan F. M. Menezes, Glaucio H. Paulino

Room: 212A Tuesday		Topology Optimization	
Chair: Emilio C. N. Silva (University of Sao Paulo, Brazil)			
Time	ID	Presenting Author	Title
9:00	A250902	Paul Falkenberg (Technische Universität Braunschweig, Germany)	Evaluations on the feasibility of multi-material topology optimization for practical applications Paul Falkenberg, Eiko Türck, Thomas Vietor
9:20	A250502	Minghao Yu (DUT, China)	Topology optimization and sensitivity analysis of fluid-thermal-structural problems based on OpenFOAM Minghao Yu, Zheng Li
9:40	A250613	Anton Evgrafov (DTU, Denmark)	A non-local SIMP model and sensitivity filtering Anton Evgrafov, Jose C. Bellido
10:00	A250899	Xinyu Yan (DUT, China)	Topology optimization for thermal conductors by sequential integer programming and Canonical dual theory XinYu Yan, Yuan Liang, Gengdong Cheng
10:20	A250901	Dominik Nugara (Daimler AG, Germany)	Combining lattice optimization and an overhang constraint for self-supporting structures based on topology optimization Dominik Nugara, Dennis Middelman, Fabian Fuerle, Peter Middendorf

Room: 212A Tuesday		Topology Optimization	
Chair: Sung-Kie Youn (DUT, China)			
Time	ID	Presenting Author	Title
11:20	A240930	Linwei He (Sheffield, UK)	Holistic layout optimization of multi-storey buildings Linwei He, Matthew Gilbert, Hongjia Lu, Buick Davison, Andy Tyas
11:40	A250911	Yuki Noguchi (Kyoto University, Japan)	Topology optimization for the design of anisotropic elastic metamaterials based on a high-frequency homogenization method Yuki Noguchi, Hiromasa Kurioka, Takayuki Yamada, Kazuhiro Izui, Shinji Nishiwaki
12:00	A250914	Zhixun Yang (DUT, China)	Multi-objective collaborative topology optimization design of the strengthening layer of flexible risers Zhixun Yang, Jun Yan, Zhirui Fan, Haitao Hu
12:20	A250917	Yang Jiang (GIT, USA)	Topology optimization with design-dependent loading: an adaptive sensitivity-separation design variable update scheme Yang Jiang, Adeildo S. Ramos Jr, Glaucio H. Paulino
12:40	A250947	Chuan Luo (Johns Hopkins, USA)	Topology optimization of laminated composite structures using multi-material projection methods Chuan Luo, James K. Guest

Room: 212A		Topology Optimization	
Tuesday			
Chair: Linwei He (Sheffield, UK)			
Time	ID	Presenting Author	Title
14:00	A250804	Ole Sigmund (DTU, Denmark)	Manufacturing tolerant topology optimization of compliant mechanisms with stress constraints Gustavo Assis da Silva, André Teófilo Beck, Ole Sigmund
14:20	A250928	Bingxiao Du (NUDT, China)	An enhanced moving morphable void method with automatic hole creation Bingxiao Du, Wen Yao, Yong Zhao, Xianqi Chen, Xiaoqian Chen
14:40	A250936	Jeroen Pellens (KU Leuven, Belgium)	Topology optimization of support structure layout in metal-based additive manufacturing accounting for thermal stresses Jeroen Pellens, Geert Lombaert, Manuel Michiels, Mattias Schevenels
15:00	A250933	Zhen Wang (DUT, China)	Explicit structural topology optimization under finite deformation via moving morphable void (MMV) approach Zhen Wang, Riye Xue, Peng Lin, Sicong Zhao, Xu Guo
15:20	A250950	Dirk Munro (TUD, Neitherlands)	Physics-based topology optimization for additive manufacturing: support structure generation considering part distortion and jamming Dirk Munro

Room: 212A		Topology Optimization	
Tuesday			
Chair: Katsuyuki Suzuki (University of Tokyo, Japan)			
Time	ID	Presenting Author	Title
16:20	A250903	Haitao Ma (Guangzhou University, China)	Certain issues in topology optimization of plate structures Haitao Ma
16:40	A250941	Emily D. Sanders (GIT, USA)	PolyMat: an efficient matlab code for multi-material topology optimization Emily D. Sanders, Anderson Pereira, Miguel A. Auiló, Glaucio H. Paulino
17:00	A250898	Linyuan Li (DUT, China)	Topology optimization of stiffened plate structures based on moving morphable components and meshless method Linyuan Li, Xu Guo
17:20	A250835	Xuchun Ren (Georgia Southern University, USA)	Robust topology optimization for 3d case based on dimensional decomposition method Xuchun Ren, Xiaodong Zhang

Room: 212A		Topology Optimization	
Wednesday			
Chair: Jose C. Bellido (Universidad de Castilla-La Mancha, Spain)			
Time	ID	Presenting Author	Title
9:00	A25095	Floris van Kempen (TNO, Netherlands)	Stress constrained topology optimization for wide-band dynamically excited structures Floris van Kempen, Jan de Vreugd, Gregor van Baars
9:20	A250923	Mikhail Osanov (Johns Hopkins, USA)	Some finer points in projection-based topology optimization for overhang constraints Mikhail Osanov, Reza Behrou, James K. Guest
9:40	A250948	Yan Liu (MIT, USA)	Experimental investigation of topology-optimized reinforced concrete beams with varying volume fraction Yan Liu, Josephine V. Carstensen, Jackson Jewett
10:00	A250897	Suqiong Xie (Nagoya University, Japan)	A topology optimization method for heat transfer problem of unsteady flow using lattice kinetic scheme Suqiong Xie, Toshiro Matsumoto, Toru Takahashi, Isakari Hiroshi
10:20	A250946	Mariana Moretti	Topology optimization design of piezoelectric actuators with vibration attenuation by using a pid-controller Mariana Moretti

Room: 212A		Topology Optimization	
Wednesday			
Chair: Gil Ho Yoon (Hanyang, Korea)			
Time	ID	Presenting Author	Title
11:20	A250427	David Ruiz (Universidad de Castilla – La Mancha, Spain)	A high efficient method for computing eigenvector derivatives when tracking modes with repeated eigenvalues in topology optimization David Ruiz, Gil Ho Yoon, Alberto Donoso, José Carlos Bellido
11:40	A250511	Chuang Wei (SJTU, China)	Topology optimization of tree-like support structures for additive manufacturing by geometric constraint Chuang Wei, Yichang Liu, Mingdong Zhou
12:00	A250953	Ruijie Zhao (BUAA, China)	Optimization of laser communication mirror based on multi-objective topology optimization Ruijie Zhao, ChunjieWang
12:20	A250960	Yuyang Song (University of Michigan, USA)	Anisotropic topology optimization and build direction design of additively manufactured assemblies Yuqing Zhou, Yuyang Song, Tsuyoshi Nomura, Kazuhiro Saitou
12:40	A250966	Lei Xu (DUT, China)	Topology optimization of the coupled structure-acoustic system based on moving morphable components (MMC) method Lei Xu, Xu Guo, Weisheng Zhang

Room: 212A Wednesday		Topology Optimization	
Chair: Jaewook Lee (Gwangju Institute of Science and Technology, Korea)			
Time	ID	Presenting Author	Title
14:00	A250961	Frédéric Duboeuf (Siemens, Belgium)	Implementation of stress constraint within the context of an industrial topology optimization software Frédéric Duboeuf, Alain Remouchamps, Maxime Collet, Pierre Duysinx, Etienne Lemaire
14:20	A250637	Youngsuk Jung (Hanyang, Korea)	Multi-material topology optimization considering joint design Youngsuk Jung, Minsik Seo, Seungjae Min
14:40	A250970	Tianchen Cui (DUT, China)	Topology optimization with growth via moving morphable components (MMC) method Tianchen Cui, Xiaohu Lin, Xu Guo
15:00	A250546	Shufei Feng (Xidian University, China)	Topology optimization of large steerable pretensioned antenna structures with unified cable-bar model Shufei Feng, Baoyan Duan, Hongjun Cao
15:20	A250969	Tsuyoshi Nomura (Toyota Research Institute of North America, USA)	Topology optimization method with orientation field design variables Tsuyoshi Nomura, Atsushi Kawamoto, Tsuguo Kondoh, Jaewook Lee, Yuyang Song, Ercan M. Dede

Room: 212A Wednesday		Topology Optimization	
Chair: Jihong Zhu (NPU, China)			
Time	ID	Presenting Author	Title
16:20	A250366	Dixiong Yang (DUT, China)	Stress-constrained topology optimization of continuum structures with IGA-SIMP method Dixiong Yang, Hongliang Liu, Guohai Chen, Wenpei Wang
16:40	A250339	Lidan Zhang (TUD, Netherlands)	Reduced-order-modeling-based topology optimization for geometrically nonlinear structures Lidan Zhang, Yi Zhang, Fred van Keulen
17:00	A250495	Dongsheng Jia (Queen Mary, UK)	Topology optimization of the framed mould used in autoclave processing for composite forming Dongsheng Jia, Tong Gao, Jihong Zhu, Elliot Karl Bontoft, Vassili Toropov
17:20	A250560	Zhao Xu (NPU, China)	Topology optimization of multi-material structures with multi-parameterized density variables Zhao Xu, Weihong Zhang, Tong Gao, Ying Zhou, Jihong Zhu

Room: 212A		Topology Optimization	
Thursday			
Chair: Gyung-Jin Park (Hanyang University, Korea)			
Time	ID	Presenting Author	Title
9:00	A250481	Hongling Ye (BJUT, China)	Fatigue topology optimization for continuum structure by using independent continuous mapping method Hongling Ye, Pengfei Su, Qingsheng Yang, Yunkang Sui
9:20	A250508	Hai Huang (DUT, China)	Topology optimization design of traditional fan blade core layer Hai Huang, Shengli Xu, Yan Zhou, Yan Wang, Bo Wang
9:40	A250514	Hao Li (USST, China)	Experimental and numerical investigation of active heat sinks designed by topology optimization Hao Li, Xiaohong Ding, Tiannan Hu
10:00	A250515	JongMin Yoon (Hanyang, Korea)	A novel method for topology optimization with general constraints Jong-Min Yoon, Gyung-Jin Park

Room 212B

Room: 212B Monday		Topology Optimization	
Chair: Yimin Xie (RMIT, Australia)			
Time	ID	Presenting Author	Title
11:20	A250628	Xiaodong Huang (Swinburne UT, Australia)	A new density-based topology optimization approach without material penalization Xiaodong Huang
11:40	A250536	Martin P. Schmidt (Normandie, France)	On structural topology optimization enforcing graded porosity control Martin Pierre Schmidt, Claus B. W. Pedersen, Christian Gout
12:00	A250567	Dawei Zhou (DUT, China)	Layout optimization of damping materials in structures with constrained layer damping under harmonic excitation within a frequency band for constraint force index Dawei Zhou, Biaosong Chen, Sheng Zhang, Shuai Mei, Chao Li
12:20	A250561	Pablo Alarcón Soto (University of Liege, Belgium)	Imposing manufacturing constraints in topological optimization of 2D fuel cell flow problems using OpenFOAM Pablo Alarcón Soto, Eduardo Fernández Sánchez, Simón Bauduin, Nathalie Job, Pierre Duysinx
12:40	A250565	Lei Tang (NPU, China)	Topology optimization of nonlinear heat conduction problem with temperature-dependent material property Lei Tang, Longlong Song, Chengqi Zhang, Tong Gao, Weihong Zhang

Room: 212B Monday		Topology Optimization	
Chair: Ming Zhou (Altair, USA)			
Time	ID	Presenting Author	Title
14:00	A250566	Weiming Wang (TUD, Netherlands)	Space-time topology optimization for additive manufacturing: concurrent optimization of structural layout and fabrication sequence Weiming Wang, Dirk Munro, Charlie C. L. Wang, Fred van Keulen, Jun Wu
14:20	A250541	Zilong Zhao (RMIT, Australia)	Topology optimization of biological structures: emergent plants and the scorpion stinger Zilong Zhao, Shiwei Zhou, Xiqiao Feng, Yimin Xie
14:40	A250569	Xiang Qi (NPU, China)	Topology optimization of axisymmetric structure involving design-dependent loads using implicit B-splines Xiang Qi, Ying Zhou, Chengqi Zhang, Tong Gao, Weihong Zhang
15:00	A250587	Tuo Zhao (GIT, USA)	Topology optimization considering drucker – prager criterion using a surrogate nonlinear elastic constitutive model Tuo Zhao, Eduardo N. Lages, Adeildo S. Ramos Jr., Glaucio H. Paulino

Room: 212B		Topology Optimization	
Monday			
Chair: Alicia Kim (UCSD, USA)			
Time	ID	Presenting Author	Title
16:20	A250632	Yunfei Fu (Deakin University, Australia)	Topology optimization of continuum structures using smooth boundary representation Yunfei Fu, Bernard Rolfe, Louis N. S. Chiu, Yanan Wang, Xiaodong Huang, Kazem Ghabraie
16:40	A250721	Kaiqing Zhang (DUT, China)	Three-dimensional high resolution topology optimization considering manufacturing constraints in additive manufacturing Kaiqing Zhang, Gengdong Cheng
17:00	A250312	Robert Dienemann (Altair Engineering, Germany)	Manufacturing constraint for deep drawn sheet metals in density based topology optimization Robert Dienemann, Axel Schumacher
17:20	A250313	Renato Picelli (University of São Paulo, Brazil.)	Solving topology optimization with {0,1} design variables and mathematical programming: the TOBS method Renato Picelli, Raghavendra Sivapuram
17:40	A250824	Jun Tie (Tianjin UFE, China)	Topology optimization ICM method for continuum structure based on the Sigmoid filter and bi-level programming Jun Tie, Yongping Li, Hongling Ye

Room: 212B		Topology Optimization	
Tuesday			
Chair: Fengwen Wang (DTU, Denmark)			
Time	ID	Presenting Author	Title
9:00	A250297	Yongsheng Han (NPU, China)	Topology optimization of continuum structures under hybrid additive-subtractive manufacturing constraints Yongsheng Han, Bin Xu, Lei Zhao
9:20	A250299	Siyuan Wu (Tongji, China)	Application of topology optimisation technique to earthquake resilient structure Siyuan Wu, Huanjun Jiang
9:40	A250303	Jie Gao (HUST, China)	An isogeometric topology optimization method for materials and structures Jie Gao, Zhen Luo, Liang Gao
10:00	A250304	Kemin Zhou (Huaqiao University, China)	Structural topology optimization based on truss-like material distributed field Kemin Zhou
10:20	A250594	Yongbo Deng (KIT, Germany)	Micro-/nano-textures inversely designed for Cassie-Baxter wetting behavior Yongbo Deng, Zhenyu Liu, Jan G. Korvink

Room: 212B		Topology Optimization & CAD-FEM Integration & Composite Multifunctional Materials	
Tuesday			
Chair: Yoojeong Noh (Pusan National University, Korea)			
Time	ID	Presenting Author	Title
11:20	A100907	Seonho Cho (Seoul National University, Korea)	Optimal isotopic distribution of carbon nanotubes for extreme thermal conductivity Hong-Lae Jang, Jae-Hyun Kim, Se-Hyeon Kang, Seonho Cho
11:40	A090356	Manuel Ramsaier (Ravensburg-Weingarten UAS, Germany)	On a Physics-based Reconstruction Algorithm for Generating Clean Parametric Native CAD-Models from Density-based Topology Optimization Results Manuel Ramsaier, Markus Till, Axel Schumacher, Stephan Rudolph
12:00	A090562	Wei Hu (Hunan University, China)	A close-loop CAD/CAE integrated surrogate assisted optimization software for geometric design problems Wei Hu, Yunqiang Wu, Hu Wang
12:20	A090973	Frédéric Duboeuf (Siemens, Belgium)	Topology optimization integration in the design process of an industrial end-to-end system for product development and production by additive manufacturing technologies Frédéric Duboeuf, Etienne Lemaire, Alain Remouchamps
12:40	A250309	Xirong Peng (Hunan City University, China)	Fail-safe topology optimization of continuum structures by icm method Xirong Peng, Yunkang Sui

Room: 212B		Composite Multifunctional Materials	
Tuesday			
Chair: Masatoshi Shimoda (Toyota Technological Institute, Japan)			
Time	ID	Presenting Author	Title
14:00	A100372	Gore Lukas Bluhm (DTU, Denmark)	Nonlinear analysis of buckling strength and post-buckling behavior of 2D periodic lattices Gore Lukas Bluhm, Ole Sigmund, Fengwen Wang, Konstantinos Poullos
14:20	A100408	Jinxing Shi (Komatsu University, Japan)	Optimal interface shape design of structures with hybrid materials in buckling problem Jinxing Shi, Kana Yoshizumi, Masatoshi Shimoda, Shinobu Sakai
14:40	A100420	Yiqiang Wang (DTU, Denmark)	Lightweight anisotropic plate-lattice structures with maximal stiffness Yiqiang Wang, Jeroen Groen, Ole Sigmund
15:00	A100609	Ronghua Cui (DUT, China)	Explicit topology optimization for stiffener layout of composite stiffened panels based on moving morphable components Ronghua Cui, Zhi Sun
15:20	A100542	Fei Meng (Swinburne UT, Australia)	Topology optimization of photonic crystals with versatile properties Fei Meng, Yafeng Chen, Baohua Jia, Xiaodong Huang

Room: 212B		Composite Multifunctional Materials	
Tuesday			
Chair: Shujuan Hou (Hunan University, China)			
Time	ID	Presenting Author	Title
16:20	A100765	Xiu Jia (Lehigh University, USA)	Design of tribological composites for multi-functional applications Xiu Jia, Tomas Grejtak, Brandon Krick, Natasha Vermaak
16:40	A100476	Philipp Gebhardt (TU Braunschweig, Germany)	Sensitivity based composite design regarding strengths Philipp Gebhardt, Eiko Türck, Thomas Vietor
17:00	A100607	Hongjie Chen (DUT, China)	Carbon fiber/aluminum honeycomb sandwich with carbon fiber belt toughening Hongjie Chen, Zhi Sun, Shanshan Shi, Xu Guo
17:20	A100758	Simon Loske (TU Dortmund, Germany)	Free material optimization of multilayer composite materials Simon Loske, Franz-Joseph Barthold, Nikolai Gerzen
17:40	A100611	Zhi Sun (DUT, China)	Optimization of fiber reinforced plastic (FRP) composite structures based on moving morphable components (MMC) method Zhi Sun, Xu Guo

Room: 212B		Automotive Design Optimizations	
Wednesday			
Chair: Akihiro Takezawa (Hiroshima University, Japan)			
Time	ID	Presenting Author	Title
9:00	A080483	Shujuan Hou (Hunan University, China)	Crashworthiness optimization: materials, structures, and vehicle bodies Shujuan Hou, Chuanhao Lu, Zheyi Zhang, Huiyan Liang, Qing Li, Xu Han
9:20	A080501	Chang Qi (DUT, China)	Multi-objective optimization of hybrid-material bumper beam for pedestrian protection Chang Qi, Yong Sun, Lian-Zheng Pei, Shu Yang
9:40	A080622	Lei Yan (DUT, China)	An integrated topology optimization method for spot weld layout design of automotive body structures Shu Yang, Lei Yan, Chen Yu, Chang Qi
10:00	A080665	Marius Bierdel (Fraunhofer EMI, Germany)	Structural behaviour of topology optimized and metal additive manufactured automobiles components under crash loads Marius Bierdel, Daniel Krail, Aron Pfaff, Klaus Hoschke
10:20	A080739	Kazuo Ichikawa (Mazda Motor Corporation, Japan)	Structural topology and lattice optimization of gasoline engine piston considering strength Kazuo Ichikawa, Jumpei Nomura, Akihiro Takezawa, Mitsuru Kitamura

Room: 212B Wednesday		Approximations and Surrogates or Meta-models	
Chair: Seung-Hyun Ha (Korea Maritime and Ocean University, Korea)			
Time	ID	Presenting Author	Title
11:20	A040785	Wei Chen (Northwestern, USA)	A latent variable approach to mixed-variable gaussian process modeling with grouped qualitative variables Siyu Tao, Daniel W. Apley, Wei Chen
11:40	A040411	Liming Chen (HUST, China)	On the acceleration of gradient-enhanced Kriging modeling for high-dimensional problems Liming Chen, Haobo Qiu, Liang Gao
12:00	A040414	Zheng Li (DUT, China)	A study on measuring diversity of multiple solutions based on Gaussian process model Zheng Li, Gengdong Cheng, Shilun Ruan
12:20	A040419	Zhendong Guo (NTU, Singapore)	Comparing error estimation measures for kriging and co-kriging approximations of noise-free functions Zhendong Guo, Raphael T. Haftka
12:40	A040555	Keshi Zhang (NPU, China)	A novel surrogate model for efficient global optimization of noisy expensive functions Keshi Zhang, Shengjie He, Zhonghua Han

Room: 212B Wednesday		Approximations and Surrogates or Meta-models	
Chair: Wei Chen (Northwestern, USA)			
Time	ID	Presenting Author	Title
14:00	A040754	Jian Zhang (Jiangsu University, China)	A Unified ensemble of surrogates (ues) with global and local measures for engineering design and optimization Jian Zhang, Jiajia Qiu, Xinxin Yue
14:20	A040583	Luc Laurent (Conservatoire National des Arts et Métiers, France)	Gradient-based approach using xfem and cokriging for optimal positioning of a structure in an acoustic cavity Luc Laurent, Antoine Legay
14:40	A040610	Miyeon Jeon (Pusan National University, Korea)	Ensemble model for predicting the ship's engine fuel consumption in real ship maritime big data Miyeon Jeon, Yoojeong Noh, Kyunghwan Jeon, Sangbong Lee
15:00	A040646	Kyeonghwan Kang (KAIST, Korea)	Efficient metamodeling strategy using recursive decomposition with sequential sampling Kyeonghwan Kang, Ikjin Lee
15:20	A040571	Jie Fang (BUAA, China)	A meta-model of the maximum length of gas plume condensation based on deep neural network Jie Fang, Bo Liu, Yuhuan Zhang, Peicong Wang, Guobiao Cai

Room: 212B		Approximations and Surrogates or Meta-models	
Wednesday			
Chair: Peng Hao (DUT, China)			
Time	ID	Presenting Author	Title
16:20	A040367	Hu Wang (Hunan University, China)	Reconstruction of image-based models for 3D PFHSs by ReConNN Hu Wang, Yu Li, Xinjian Deng
16:40	A040801	Qi Zhou (HUST, China)	A general co-kriging surrogate model for multi-fidelity information fusion Ping Jiang, Xiongfeng Ruan, Leshi Shu, Kai Yang, Qi Zhou
17:00	A040906	Tariq Benamara (Compiègne UT, France)	Infill procedure for multi-fidelity non-intrusive POD based surrogates applied to the design of turbomachinery components Tariq Benamara, Hanane Khatouri, Caroline Sainvitu, Virgile Marguin, Piotr Breitzkopf
17:20	A190990	Liye Lv (DUT, China)	A robust multi-fidelity surrogate model based on radial basis function Liye Lv, Xueguan Song

Room: 212B		Approximations and Surrogates or Meta-models & Data-driven design and optimization	
Thursday			
Chair: Martin Berggren (Umeå University, Sweden)			
Time	ID	Presenting Author	Title
9:00	A040925	Palaniappan Ramu (Indian Institute of Technology Madras, India)	Revisiting ensemble of surrogates using machine learning algorithms Kiran Pannarselvam, Palaniappan Ramu, Erdem Acar, Anish Ravishankar, Mohan Sangli
9:20	A040934	Yi Zhang (NUDT, China)	A Kriging-based sequential sampling method using regularization techniques for global metamodeling Yi Zhang, Wen Yao, Xiaoqian Chen, Siyu Ye
9:40	A070636	Heng Chi (GIT, USA)	Universal machine learning for topology optimization Heng Chi, Yuyu Zhang, Tsz Ling Elaine Tang, Lucia Mirabella, Glaucio H. Paulino
10:00	A070412	Zhen Liu (HUST, China)	Data-driven topology optimization of thermoelastic hierarchical lattice structures Zhen Liu, Liang Xia

Room: 212B		Data-driven design and optimization	
Thursday			
Chair: Hongyi Xu (University of Connecticut, USA)			
Time	ID	Presenting Author	Title
11:20	A070305	Takashi Nakazawa (Osaka, Japan)	Shape optimization problem considering reynolds average navier-stokes equation and snapshot proper orthogonal decomposition Takashi Nakazawa
11:40	A130342	Yuan Fu (Hunan University, China)	Online data-driven surrogate-assisted adaptive differential evolution algorithm assisted by neural networks for high-dimensional expensive optimization problems Yuan Fu, Hu Wang
12:00	A070421	Hansu Kim (Hanyang, Korea)	Variable screening of multiple response system using nonparametric neighborhood component feature selection (nNCFS) Hansu Kim, Taejoon Kwon, Tae Hee Lee, Namhee Ryu, Seungjae Min
12:20	A070510	Liwei Wang (SJTU, China)	Metamaterial genome with novel geometrical representation based on laplace-beltrami spectrum Liwei Wang, Zhao Liu, Yuchin Chan, Wei Chen, Ping Zhu
12:40	A070530	Neung Hwan Yim (Seoul National University, Korea)	Topology optimization of linkage mechanism by big data approach Neung Hwan Yim, Yoon Young Kim

Room 213A&B

Room: 213A&B Monday		Configurational Design Involving Microstructures	
Chair: Ole Sigmund (DTU, Denmark)			
Time	ID	Presenting Author	Title
11:20	A250789	Julian Norato (Connecticut, USA)	Topology optimization of two-scale lattice materials via geometry projection Julián Norato, Hesaneh Kazemi
11:40	A250445	Shikui Chen (StonyBrook, USA)	Concurrent topology optimization of multimaterial shell-infill structures with distance-regularized parametric level set method Long Jiang, Yang Guo, Shikui Chen, Xianfeng David Gu
12:00	A250326	Jeroen Groen (DTU, Denmark)	Homogenization-based topology optimization for multiple loading cases Jeroen Groen, Ole Sigmund
12:20	A190596	Shaoshuai Li (DUT, China)	A novel asymptotic-analysis-based homogenisation approach towards fast design of infill graded microstructures Shaoshuai Li, Yichao Zhu, Xu Guo
12:40	A250707	Dingchuan Xue (DUT, China)	Divide and conquer: a high-efficiency approach for the analysis and design of quasi-periodic graded microstructures Dingchuan Xue, Yichao Zhu, Xu Guo

Room: 213A&B Monday		Configurational Design Involving Microstructures	
Chair: Julian Norato (Connecticut, USA)			
Time	ID	Presenting Author	Title
14:00	A250924	Shutian Liu (DUT, China)	Erosion-based SIMP method for topology optimization of shell-infill structures Shutian Liu, Yunfeng Luo, Quhao Li
14:20	A250710	Pedro Coelho (NOVA University of Lisbon, Portugal)	Shape and topology optimization of material microstructures under stress constraints Pedro Coelho, Fábio Conde, David Negrão, José Guedes, João Cardoso
14:40	A250375	Liang Xia (HUST, China)	Design of spatially graded hierarchical structures with non-separated scales Liang Xia, Zhen Liu, Manman Xu, Zijun Wu
15:00	A250943	Hak Yong Lee (John Hopkins, USA)	Topology optimization of 3D woven lattices with topology-dependent bonding Hak Yong Lee, James K. Guest

Room: 213A&B		Configurational Design Involving Microstructures	
Monday			
Chair: Yichao Zhu (DUT, China)			
Time	ID	Presenting Author	Title
16:20	A250307	Hongming Zong (HKUST, China)	Cellular level set in B-Splines (CLIBS) for topology optimization – a level set model that we always want but are afraid to ask Michael Y. Wang, Hongming Zong, Qingping Ma, Ye Tian, Mingdong Zhou
16:40	A250729	Quhao Li (Shandong University, China)	Topology optimization design of graded structure with quasi-periodic microstructures based on erode-dilate operator Quhao Li, Rui Xu, Shutian Liu
17:00	A230593	Fengwen Wang (DTU, Denmark)	Numerical investigation of stiffness and strength of simple and infill structures Fengwen Wang, Jeroen Peter Groen, Ole Sigmund
17:20	A190324	Hui Liu (WHU, China)	A novel subdomain level set method for graded cellular structure design Hui Liu, Hongming Zong, Ye Tian, Qingping Ma, Michael Yu Wang
17:40	A250800	Jung Jin Kim (KAIST, Korea)	Acceleration of topology optimization-based bone microstructure reconstruction using artificial neural networks Jung Jin Kim, Yonggyun Yu, In Gwun Jang

Room: 213A&B		Topology Optimization	
Tuesday			
Chair: Xiaodong Huang (Swinburne University of Technology, Australia)			
Time	ID	Presenting Author	Title
9:00	A250802	Bong Ju Chun (KAIST, Korea)	Determination of the representative static loads for dynamic loading for efficient bone remodeling simulation: a case study of walking Bong Ju Chun, In Gwun Jang
9:20	A250331	Dominik Schneider (Wuppertal, Germany)	Graph and heuristic based topology optimization of composite profile structures being composed of individual tubes Dominik Schneider, Axel Schumacher
9:40	A250334	Stephen Roper (Queen's, Canada)	Topology optimization in applied optics design Stephen W. K. Roper, Suho Ryu, Chulmin Joo, Il Yong Kim
10:00	A250344	Yu Li (Hunan University, China)	Machine learning-based closed loop parameter optimization for mmc-based topology optimization Yu Li, Hu Wang, Kangjia Mo, Xinchao Jiang

Room: 213A&B		Topology Optimization	
Tuesday			
Chair: Shutian Liu (DUT, China)			
Time	ID	Presenting Author	Title
11:20	A250832	Emílio C. N. Silva (University of Sao Paulo, Brazil)	Multi material formulation for stress-based topology optimization using a normal distribution function Daniel M. De Leon, César Kiyono, Emílio C. N. Silva
11:40	A250347	Toshiyuki Niwa (Nippon Steel & Sumitomo Metal Corporation, Japan)	Study of non-linear topology optimization for large deformation structure considering displacement and reaction force constraints Toshiyuki Niwa, Yukihsa Kuriyama, Katsuyuki Suzuki
12:00	A250352	Pingzhang Zhou (Tsinghua University, China)	Topology optimization considering center of mass and moment of inertia Pingzhang Zhou, Guotao Ou, Jianbin Du
12:20	A250345	Mingdong Zhou (SJTU, China)	On bridging structural topology optimization and additive manufacturing with process simulation and geometry constraints Mingdong Zhou
12:40	A250355	Jie Hu (CSU, China)	Fracture ristance topology optimization considering bimaterial interface using XFEM Jie Hu, Song Yao, Yulin Xiong, Ning Gan, Xing Chen

Room: 213A&B		Topology Optimization	
Tuesday			
Chair: Tomasz Lewiński (Warsaw University of Technology, Poland)			
Time	ID	Presenting Author	Title
14:00	A250359	Yunkang Sui (BJUT, China)	Supplement, pectination and improvement of independent continuous and mapping method for structural topology optimization Yunkang Sui, Hongling Ye, Xirong Peng, Zonghan Li
14:20	A250380	Pai Liu (DUT, China)	Multi-material structural topology optimization considering material interfacial stress constraints Pai Liu, Zhan Kang
14:40	A250383	Fan Zhao (HUST, China)	Evolutionary topology optimization of thermoelastic structures with stress constraint Zhao Fan, Liang Xia
15:00	A250614	Eric de Sturler (Virginia Tech., USA)	Stochastic methods for topology optimization with many load cases Eric de Sturler, Xiaojia Shelly Zhang, Alexander Shapiro, Glaucio H. Paulino
15:20	A250360	Xuanpei Rong (Hunan University, China)	Topology optimization for continuum structures under ill-load cases based on duplicate aggregations Xuanpei Rong, Chao Jiang, Jing Zheng

Room: 213A&B		Topology Optimization	
Tuesday			
Chair: Yunkang Sui (BJUT, China)			
Time	ID	Presenting Author	Title
16:20	A250647	Peng Wei (SCUT, China)	Topology optimization of truss and continuum structures under non-stationary stochastic excitations Xueping Li, Xianzhong Bai, Peng Wei, Cheng Su
16:40	A250381	Jingjie He (DUT, China)	Topology optimization of phononic crystals for directional elastic waves propagation Jingjie He, Zhan Kang
17:00	A250369	Jialiang Sun (NUAA, China)	Topology optimization for removing internal resonances of a rotating thin plate Jialiang Sun, QiangTian, Haiyan Hu
17:20	A250388	Max van der Kolk (TUD, Netherlands)	Topology optimization of optical mounts considering transient thermo-mechanical disturbances Max van der Kolk, Matthijs Langelaar, Fred van Keulen
17:40	A250391	Yaguang Wang (DUT, China)	Concurrent two-scale topology optimization of structures with multiple unit cells using combined velocity field level set and density model Yaguang Wang, Zhan Kang

Room: 213A&B		Topology Optimization	
Wednesday			
Chair: Hai Huang (BUAA, China)			
Time	ID	Presenting Author	Title
9:00	A250473	Weihong Zhang (NPU, China)	Adaptive bubble method using fixed mesh and topological derivative for structural topology optimization Weihong Zhang, Shouyu Cai, Tong Gao, Jun Zhao
9:20	A250393	Simon Link (Wuppertal, Germany)	Graph and heuristic based topology optimization of crashworthiness sheet metal compounds Simon Link, Axel Schumacher, Christopher Ortmann
9:40	A250398	Arnoud Delissen (TUD, Netherlands)	Efficiently limiting extreme frequency response amplitudes in structural dynamics using topology optimization Arnoud Delissen, Fred van Keulen, Matthijs Langelaar
10:00	A250400	Tomasz Lewiński (Warsaw UT, Poland)	Optimal archgrids revisited: variational approach and numerical methods Tomasz Lewiński, Radosław Czubacki, Grzegorz Dzierżanowski, Tomasz Sokół
10:20	A250602	Cheolwoong Kim (Yonsei University, Korea)	Single-variable based multi-material topology optimization considering material interface behavior Cheolwoong Kim, Hong Kyoung Seong, Jeonghoon Yoo

Room: 213A&B Wednesday		Topology Optimization	
Chair: Weihong Zhang (NPU, China)			
Time	ID	Presenting Author	Title
11:20	A250448	Grégoire Allaire (Ecole Polytech., France)	Topology optimization of supports for additive manufacturing Grégoire Allaire, Benjamin Bogosel
11:40	A250893	Chang Liu (DUT, China)	Concurrent design of additive manufacturing-oriented coated structures with graded lattice infill through explicit topology optimization Chang Liu, Xu Guo
12:00	A250417	Chi Wu (The University of Sydney, Australia)	Level-set topology optimization for maximizing fracture resistance of brittle materials using phase field model Chi Wu, Jianguang Fang, Shiwei Zhou, Grant Steven, Qing Li
12:20	A250426	Anders Klarbring (Linköping University, Sweden)	A topology optimization method for as-built metal additive manufacturing Shyam Suresh, Carl-Johan Thore, Anders Klarbring
12:40	A250428	Andreas Neofytou (Cardiff University, UK)	Stress-based level set topology optimization for design-dependent pressure loads using a meshfree approach Andreas Neofytou, Renato Picelli, Jiun-Shyan Chen, Alicia Kim

Room: 213A&B Wednesday		Topology Optimization	
Chair: Casper Andreasen (DTU, Denmark)			
Time	ID	Presenting Author	Title
14:00	A250964	Hai Huang (BUAA, China)	Study on the engineering topology optimization method for large-scale complex structures and its improvement Hai Huang, Lv Feng, Jiayi Fu
14:20	A250451	Huipeng Xue (UT Sydney, Australia)	Design of auxetic coronary stents using topological optimization Huipeng Xue, Pavittar Johal, Zhen Luo, Terry Brown
14:40	A250440	Lalaina Rakotondrainibe (Technocentre Renault, France)	Topology optimization of connections in mechanical systems Lalaina Rakotondrainibe, Grégoire Allaire, Patrick Orval
15:00	A250648	Kei Matsushima (Nagoya University, Japan)	A topology optimisation of elastic metamaterials exhibiting negative refraction with the boundary element method Kei Matsushima, Hiroshi Isakari, Toru Takahashi, Toshiro Matsumoto
15:20	A250450	David Weinberg (Autodesk, Inc., USA)	A projection method of accumulated densities in 5-axis milling constraint for topology optimization David Weinberg, Nam H. Kim

Room: 213A&B		Topology Optimization	
Wednesday			
Chair: Anton Evgrafov (DTU, Denmark)			
Time	ID	Presenting Author	Title
16:20	A250436	Shyam Suresh (Linköping University, Sweden)	Topology optimization involving an evolution-based high-cycle fatigue constraint accounting for anisotropic material properties Shyam Suresh, Stefan B. Lindström, Carl-Johan Thore, Bo Torstenfelt, Anders Klarbring
16:40	A250454	Wenjun Wu (DUT, China)	Concurrent topology optimization of structures with graded lattice microstructures for maximum natural frequency Wenjun Wu, Huikai Zhang, Zhan Kang
17:00	A250461	Yingjun Wang (SCUT, China)	A new high-efficiency isogeometric topology optimization Yingjun Wang, Zhongyuan Liao, Ming Ye, Yu Zhang
17:20	A250470	Nikolaos Kallioras (National Technical University of Athens, Greece)	DL-scale: deep learning for model upgrading in topology optimization Nikos Ath. Kallioras, Nikos D. Lagaros

Room: 213A&B		Topology Optimization	
Thursday			
Chair: Qing Li (University of Sydney, Australia)			
Time	ID	Presenting Author	Title
9:00	A250944	James K. Guest (Johns Hopkins, USA)	Topology optimization considering flexibility in manufacturing constraints James K. Guest
9:20	A250651	Ning Wei (Central South University, China)	Two-grid method applied to topology optimization considering the geometrical nonlinearity Ning Wei, Song Yao
9:40	A250507	Junjian Fu (HUST, China)	Topology optimization of scale-related periodic structures with substructuring Junjian Fu, Liang Xia, Liang Gao, Mi Xiao, Hao Li
10:00	A250497	Xiaopeng Zhang (DUT, China)	Phase-field based robust topology optimization of vibrating structures with random field uncertainty Xiaopeng Zhang, Zhan Kang, Akihiro Takezawa
10:20	A250812	Alberto Donoso (Universidad de Castilla, Spain)	Topology optimization of piezo modal transducers considering electrode connectivity constraints Alberto Donoso, James K. Guest

Room: 213A&B		Topology Optimization	
Thursday			
Chair: Zhen Luo (UT Sydney, Australia)			
Time	ID	Presenting Author	Title
11:20	A250962	Qing Li (University of Sydney, Australia)	Topology optimization for biomanufacturing of bone prostheses Qing Li, Chi Wu, Keke Zheng, Nobuhiro Yoda, Ali Entezari, Zhongpu Zhang, Guangyong Sun, Jianguang Fang, Michael Swain
11:40	A250995	Xudong Jiang (DUT, China)	Simultaneous shape and topology optimization of profiled surface structures based on moving morphable component (MMC) method Xudong Jiang, Xu Guo, Xinkang Li, Honglei Tian, Longxi Liu
12:00	A250504	Chuang Wang (NPU, China)	Concurrent topology optimization of non-uniform lattice structures for additive manufacturing Chuang Wang, Han Zhou, Shaoying Li, Weihong Zhang, Jihong Zhu
12:20	A250506	Jeonghan Yu (Seoul National University, Korea)	Path generation of planar linkage mechanisms by simultaneous shape and topology optimization based on the spring-connected rigid block model Jeonghan Yu, Sang Min Han, Yoon Young Kim
12:40	A250503	Tao Zeng (Hunan University, China)	A two-stage heat flow coupling topology optimization of 3D heat dissipation structure Tao Zeng, Hu Wang

Room 215

Room: 215		Smart Structures and Materials	
Monday			
Chair: Grégoire Allaire (Ecole Polytechnique, France)			
Time	ID	Presenting Author	Title
11:20	A230458	Kepeng Qiu (NPU, China)	Microstructure design with constant elastic properties under large deformation Kepeng Qiu, Ruoyao Wang, Weihong Zhang
11:40	A230606	Yan Zhang (CAST, China)	Design and analysis of electromechanical properties of fibre-reinforced soft active composite materials Yan Zhang, Pengfei Wang, Bingyang Li, Xiang Cheng
12:00	A230734	Morten Andersen (DTU, Denmark)	Modelling and design of 3D periodic cellular microstructures Morten Andersen, Fengwen Wang, Niels Aage, Ole Sigmund

Room: 215		Smart Structures and Materials	
Monday			
Chair: Haitao Ma (Guangzhou University, China)			
Time	ID	Presenting Author	Title
14:00	A230788	Yong Hoon Lee (UIUC, USA)	Strain-actuated solar arrays for spacecraft attitude control assisted by viscoelastic damping Yong Hoon Lee, Vedant, Randy H. Ewoldt, James T. Allison
14:20	A230362	Haowen Dong (USTB, China)	Systematic design and realization of double-negative acoustic metamaterials by topology optimization Haowen Dong, Shengdong Zhao, Li Cheng, Chuanzeng Zhang, Yuesheng Wang
14:40	A230394	Meng He (HUST, China)	Topology optimization of piezoelectric energy harvester using bi-directional evolutionary structural optimization method Meng He, Jian He, Liang Xia

Room: 215		Shape and Size Optimization	
Monday			
Chair: Niels L. Pedersen (DTU, Denmark)			
Time	ID	Presenting Author	Title
16:20	A020405	Ahmad Najafi (Drexel University, USA)	Efficient scheme for IGFEM-based topology/shape optimization of microvascular materials considering uncertainty in geometry, load, and material properties Ahmad Raeisi Najafi, Reza Pejman, Marcus H. Y. Tan, Vahid Keshavarzzadeh, Sherif H. Aboubakr, William H. Martin, Jason F. Patrick
16:40	A020743	Ihar Antonau (TU Munich, Germany)	Relaxed projected gradient descent algorithm for constraint node-based shape optimization problems in the automotive industry Ihar Antonau, Majid Hojjat, Kai-Uwe Bletzinger
17:00	A020528	Wensheng Wang (HAUST, China)	Strength optimization of flanged perforated plates under uniaxial stretching and/or edge shearing loading Wensheng Wang, Haojie Wei, Qun Mei, Longtao Xu
17:20	A020533	Masahiro Kitagawa (Toyota TI, Japan)	Parameter-free shape optimum design for plastic work minimization of three dimensional rigid-plastic solid structure Masahiro Kitagawa, Masatoshi Shimoda
17:40	A020579	Charles Dapogny (Grenoble Alpes, France)	Shape and topology optimization via a level-set based mesh evolution method Charles Dapogny, Grégoire Allaire, Florian Feppon, Pascal Frey

Room: 215		Shape and Size Optimization	
Tuesday			
Chair: Ahmad Najafi (Drexel University, USA)			
Time	ID	Presenting Author	Title
9:00	A020374	Niels Leergaard Pedersen (DTU, Denmark)	On optimal design of pinned connections Niels Leergaard Pedersen
9:20	A020581	Jens Winter (TU Braunschweig, Germany)	NURBS-based shape and parameter optimization of structural components with an adaptive amount of control points Jens Winter, Sierk Fiebig, Thilo Franke, Thomas Vietor
9:40	A020778	Shi Chen (Beijing Aeros. Jintai Xingce Tech. Co., China)	Multiple responsive optimization design of cross-counter flow air-air total heat exchanger based on desirability function Shi Chen
10:00	A020807	Eilam Amir (Technion, Israel)	Efficient large scale 3D topology optimization using beam modeling Eilam Amir, Oded Amir
10:20	A020872	Jef Rombouts (KU Leuven, Leuven)	Optimization of gridshells as formwork systems for concrete shells Jef Rombouts, Andrew Liew, Geert Lombaert, Lars De Laet, Philippe Block, Mattias Schevenels

Room: 215 Tuesday		Shape and Size Optimization	
Chair: Hideyuki Azegami (Nagoya University, Japan)			
Time	ID	Presenting Author	Title
11:20	A020876	Zihan Yang (BUAA, China)	Stacking sequences optimization of composite laminate by considering shape variables Zihan Yang, Shenyang Chen
11:40	A020895	Xuan Zhang (Beijing Comp. Center, China)	Influence of environmental condition on optimal sma wire placement of hanging truss Xuan Zhang, Kazuyuki Hanahara
12:00	A240763	Shuichi Tango (Nagoya University, Japan)	Acceleration of shape optimization analysis using degeneration by singular value decomposition Shuichi Tango, Hideyuki Azegami
12:20	A240348	Yingkang Xu (BJUT, China)	Static dynamic model updating based on bolt connection stiffness Yingkang Xu, Jiazheng Du
12:40	A240437	Zhou Huang (China Academy Eng. Phys., China)	Research on structural optimization of support bracket under complex static and dynamic environment Zhou Huang, Dong Mu, Hai Huang, Yonggang Bai, Huabing Jiang

Room: 215 Tuesday		Structural Optimization	
Chair: Gang-Won Jang (Hangyang University, Korea)			
Time	ID	Presenting Author	Title
14:00	A250320	Florian Beyer (Wuppertal, Germany)	Development of heuristics dealing with material failure of composite profile structures for the Graph and Heuristic based Topology Optimization Florian Beyer, Dominik Schneider, Axel Schumacher
14:20	A240368	Min Xiong (USST, China)	Bionic hierarchy growth method for optimal design of dendritic heat transfer structure Min Xiong, Xiaohong Ding, Yidong Ji
14:40	A240413	Sang-Ok Park (Hangyang, Korea)	Dynamic response optimization of the structures with viscoelastic material Sang-Ok Park, Wook-Han Choi, Gyung-Jin Park
15:00	A240434	Meide Yang (Hebei UT, China)	Experimental test and reliability-based design optimization for the rv reducer Meide Yang, Dequan Zhang, Xu Han

Room: 215		Structural Optimization	
Tuesday			
Chair: Makoto Ohsaki (Kyoto University, Japan)			
Time	ID	Presenting Author	Title
16:20	A240365	Yu Wang (SCAU, China)	Structural optimization design method considering slm manufacturing constraints Yu Wang
16:40	A240456	Zhao Jing (HUST, China)	Stacking sequence optimization for maximum buckling load of composite rectangular plates using sequential permutation search Zhao Jing
17:00	A240499	Wei Shen (Kyoto, Japan)	Shape and topology optimization of frame structures using force density method Wei Shen, Makoto Ohsaki
17:20	A240559	Jongmin Kim (Hyundai, Korea)	An optimization of the electric bus body structure for the weight reduction Jongmin Kim
17:40	A250321	Danny Lohan (UIUC, USA)	An assessment of structural optimization methods for device-level heat sink design Danny J. Lohan, James T. Allison

Room: 215		Structural Optimization	
Wednesday			
Chair: Tong Gao (NPU, China)			
Time	ID	Presenting Author	Title
9:00	A240585	Andrzej Myslinski (Systems Research Institute, Poland)	Structural optimization of elasto-plastic contact problems using the level set method Andrzej Myśliński
9:20	A240766	Teemu Tiainen (Tampere University, Finland)	Two-phase approach in discrete steel frame optimization Teemu Tiainen, Kristo Mela
9:40	A240635	Mingook Jung (Yonsei University, Korea)	Structural design of a dielectric structure for microwave scattering in broadband frequency Mingook Jung, Hyundo Shin, Jinwoo Park, Jeonghoon Yoo
10:00	A240657	Wenjie Zuo (JLU, China)	Equivalent static displacements (ESD) method for nonlinear optimization of contact force Xueqian Chen, Wenjie Zuo
10:20	A240732	Xinyou Lin (Hunan University, China)	Combined shape and size optimization of single-phase metamaterials for broadband double negativity Xinyou Lin, Yi Wu, Zhicheng He, Eric Li, Qiqi Li, Hexin Jiang

Room: 215 Wednesday		Structural Optimization	
Chair: Andrzej Myslinski (Systems Research Institute, Poland)			
Time	ID	Presenting Author	Title
11:20	A240605	Gang-Won Jang (Sejong University, Korea)	Thin structure optimization using level set method Gang-Won Jang
11:40	A240676	Johannes Sperber (Volkswagen AG, Germany)	Optimal application of triggers for the deformation of crash structures under axial compression with consideration of geometrical imperfections Johannes Sperber, Christopher Ortmann, Axel Schumacher
12:00	A240690	Xiaohan Ma (Hiroshima University, Japan)	Optimization of fluid flow in lattice structure using the Brinkman-Forchheimer equation Xiaohan Ma, Aikihiro Takezawa, Xiaopeng Zhang, Mitsuru Kitamura
12:20	A240727	Rui Xu (DUT, China)	Concurrent topology optimization design of structure and material with variable microstructural length-width ratios Rui Xu, Quhao Li, Shutian Liu

Room: 215 Wednesday		Structural Optimization	
Chair: Dennis Hohlfeld (University of Rostock, Germany)			
Time	ID	Presenting Author	Title
14:00	A240916	Xurui Zhao (BUAA, China)	Application of size and shape optimization simultaneously on a satellite adapter design Zhao Xurui, Shahzad Hameed, Obaid ur Rehman, Hai Huang
14:20	A240954	Helen Fairclough (Sheffield, UK)	Layout optimization of long span bridges Helen Fairclough, Matthew Gilbert, Aleksey Pichugin, Andy Tyas
14:40	A240797	Kichan Sim (KMOU, Korea)	Structural design optimization for lightweight offshore helidecks using genetic algorithm and attainable design sets Kichan Sim, Byungmo Kim, Chanyoung Kim, Seung-Hyun Ha
15:00	A240792	Sa-aadat Parker (UCT, South Africa)	Optimal design of composite plates with variable lamina fibre arrangements using a simultaneous analysis and design methodology Sa-aadat Parker, Albert Groenwold

Room: 215		Structural Optimization	
Wednesday			
Chair: Mattias Schevenels (KU Leuven, Belgium)			
Time	ID	Presenting Author	Title
16:20	A240813	Karol Bołbotowski (University of Warsaw, Poland)	Elasticity theory of optimal structures with singularities in the material distribution Karol Bołbotowski
16:40	A240880	Willem Gythiel (KU Leuven, Belgium)	Gradient-based size, shape and topology optimization of single-layer reticulated shell structures subjected to distributed loads Willem Gythiel, Geert Lombaert, Mattias Schevenels
17:00	A240891	Junru Zhang (DUT, China)	Optimization of rotating structure with gyroscopic effects based on minimum dynamic quadratic performance index Junru Zhang, Gengdong Cheng
17:20	A240905	Kozo Furuta (Kyoto University, Japan)	Level-set based structural optimization method for thermal materials utilizing nanoscale effects Kozo Furuta, Ayami Sato, Kazuhiro Izui, Takayuki Yamada, Mitsuhiro Matsumoto, Shinji Nishiwaki
17:40	A240834	Iván Couceiro (UDC, Spain)	Dynamic response optimization of steel jackets for offshore wind turbines with fatigue and time-dependent constraints. I. Couceiro, J. París, F. Navarrina, I. Colominas, M. Casteleiro

Room: 215		Structural Optimization	
Thursday			
Chair: Sunghoon Lim (Kyoto University, Japan)			
Time	ID	Presenting Author	Title
9:00	A240974	Matthew Gilbert (Sheffield, UK)	Truss layout optimization: from benchmark solutions to practical designs Matthew Gilbert, Linwei He
9:20	A240919	Zuhaib Hassan (BUAA, China)	Cross sectional parameters optimization of eccentrically stiffened plate structures Zuhaib Hassan, Shahzad Hameed, Waqas Razaq, Hai Huang
9:40	A240945	Efthymios Papoutsis (BMW AG, Germany)	Geometric constraints and cutting surfaces for gradient node-based shape optimization Efthymios Papoutsis, Majid Hojjat, Kai-Uwe Bletzinger
10:00	A240480	Jing Liu (SJTU, China)	Reliability-based design optimization of ship structures using dynamic bp network metamodel Jing Liu, Deyu Wang

Room: 215		Structural Optimization	
Thursday			
Chair: Matthew Gilbert (University of Sheffield, UK)			
Time	ID	Presenting Author	Title
11:20	A240773	Tuan Nguyen (DTU, Danmark)	A hybrid method for structural optimization Tuan T. Nguyen, J. Andreas Bærentzen, Niels Aage, Ole Sigmund
11:40	A240882	Jiayi Fu (BUAA, China)	A discrete size and topology optimization method for complex structures with extended approximation concepts Jiayi Fu, Hai Huang, Lv Feng
12:00	A240795	Juan Pablo Leiva (Vrand, USA)	Structural optimization methods and techniques for additive manufacturing Juan Pablo Leiva, Hong Dong, Brian Watson
12:20	A240956	Hongjia Lu (Sheffield, UK)	Interactive conceptual design optimization of additively manufactured components Hongjia Lu, Matthew Gibert, Linwei He

Poster Session

(Wed 16:20-18:00, L2)

No.	ID	Author	Title
1	A010858	Lv Feng (BUAA, China)	A two-stage decomposition strategy for truss topology optimization with discrete sizing variables Lv Feng, Hai Huang
2	A020465	Yongsong Chen (SAIC MAXUS, China)	Crashworthiness optimization design of VRB-VCS front longitudinal beam based on implicit parameterization technique Yousong Chen, Libin Duan, Haobing Jiang
3	A020466	Libin Duan (Jiangsu University, China)	Theoretical prediction and crashworthiness optimization of top-hat thin-walled structures under transverse loading Libin Duan, Haobing Jiang, Yousong Chen, Zhanpeng Du
4	A020520	Sanghoon Lee (Keimyung University, South Korea)	Design optimization of anti-vibration rubber assembly to reduce the vibration of a tractor cabin Sanghoon Lee, Jihwan Seo
5	A020887	Wei Wang (Xidian University, China)	Layout optimization of fluid channel in cold plates considering conjugate heat transfer Jinbiao Chen, Wei Wang
6	A030431	Dequan Zhang (Hebei University, China)	An evaluation system of kinematic accuracy reliability for industrial robots Jinhui Wu, Dequan Zhang, Xu Han
7	A030589	Charles Jekel (University of Florida, USA)	Comparison of chebyshev's inequality and non-parametric b-basis to estimate failure strength of composite open hole tension tests Charles Jekel, Yiming Zhang, Bogdan Grechuk, Rafi Haftka
8	A030937	A. Sivakumar (IIT, India)	Quantifying uncertainties with limited and bounded data using convex hull A. Sivakumar, Palaniappan Ramu, I. Elishakoff
9	A030938	Deepan Jayaraman (IIT, India)	Uncertainty propagation using higher order L-moments with scarce samples including extremes Deepan Jayaraman, Palaniappan Ramu
10	A040640	Mochammad Solichin (Pusan National University, Korea)	Imputer models for preprocessing of missing time series data Solichin Mochammad, Yoojeong Noh
11	A040846	Shashwat Joshi (IIT, India)	Heat transfer optimization in wavy tube Shashwat Joshi, G Saravana Kumar, Sreenivas Jayanti
12	A050377	Jae-Jun Lee (KEPCO Nuclear Fuel, Korea)	Preliminary study on optimization of welding position for lateral stiffness increase of nuclear fuel assembly using design of experiments Jae-Jun Lee, Young-Duk Sim, Se-Ick Son, Seong-Ki Lee, Jong-Sung Yoo
13	A050471	Michael Stingl (Nuremberg, Germany)	Haze optimization for particulate films Michael Stingl, Johannes Semmler

14	A050494	Bret Hauser (UT Arlington, USA)	Design optimization of a rotordynamic beam system with elastic supports to minimize flexural responses using a combined optimization algorithm Bret R. Hauser, Boping Wang
15	A050552	Karoly Jarmai (Miskolc University, Hungary)	Life cycle assessment (LCA) and structural optimization Karoly Jarmai
16	A030779	Zeng Meng	Efficient non-probabilistic reliability optimization method using an adaptive importance learning function Zeng Meng
17	A060399	Zhang Hua (Aerospace Systems Engineering Shanghai, China)	Study on topology optimization design for spacecraft structure based on moving morphable component (MMC) approach Zhang Hua, Liu Han-wu, Zhang Weisheng, Tang Ping
18	A060513	Hao Zhou (China Academy of Space Technology, China)	Optimization design of spacecraft connection structure based on gradient porous structure Zhiyong Zhou, Yan Chen, Lin Zhang, Xiaoyun Zang, Liming Shi, Xiaoyu Zhang, Hao Zhou
19	A060696	Fanchun Li	Study on dynamic performance of variable mass structures based on different optimum design methods Fanchun Li, Yun Zhang
20	A060747	Jia Hao (BUAA, China)	Optimization study on flow and layout of micro/nano satellite pulse production line Jia Hao, Shenyan Chen, Hailong Yang
21	A070784	Haitao Du	Performance integration and optimization and of biw based on structure key section dimensions Haitao Du
22	A070815	Karoly Jarmai (University of Miskolc, Miskolc)	Adaptive algorithms in logistics system optimization Laszlo Kota, Károly Jármai
23	A080714	Jinhong Liu (Hunan University, China)	Stiffness and weight optimization of a novel connecting method with cfrp for electric vehicle Fei Lei , Jinhong Liu
24	A250940	Xin Lei (DUT, China)	Machine learning-driven real-time topology optimization under moving morphable component-based framework Xin Lei, Chang Liu, Xu Guo
25	A130330	Eysa Salajegheh (Shahid Bahonar University of Kerman, Iran)	Enhanced optimization method by hybridization of pso, gsa and gradient directions Eysa Salajegheh, Farsad Salajegheh, Farzad Salajegheh, Farnaz Salajegheh
26	A130547	Nianhui Ye (BIT, China)	Enhanced ($\mu+\lambda$)-constrained differential evolution using success-history Nianhui Ye, Teng Long, Renhe Shi, Yufei Wu, Yifan Tang
27	A160534	Jianyu Li (Tianjin University of Science, China)	Model parameter inversion based on DIC displacement data compression Jianyu Li, Zhao Ren

28	A250912	Yuan Liang (DUT, China)	Multi-resolution discrete variable topology optimization via Canonical dual theory and extended multiscale finite element Yuan Liang, Gengdong Cheng
29	A170485	Liqiao Fang (Aviation Powerplant Research Institute, China)	Distributed web services platform implementation based on BLISS/RS Lizhang Zhang, Zhengming Qian, Liqiao Fang, Yuyang Lai
30	A180387	Zhanpeng Du (Hunan University, China)	Crashworthiness optimization for front longitudinal beam based on crushing behavior characteristics of hat shaped beams Zhanpeng Du, Aiguo Cheng, Zhaohui Hu
31	A180423	Yongxin Li (Yanshan University, China)	Evaluation function construction of topological optimization based on load risk degree under multiple load cases Yongxin Li, Quanwei Yang
32	A180626	Heting Wang (DUT, China)	Crashworthiness design of thin-walled tubes reinforced by triply periodic minimal surfaces Heting Wang, Shengfa Wang, Baojun Li
33	A200537	Yongbo Peng (Tongji, China)	Integrated optimization and design of MR dampers for semiactive control of randomly excited structures Yongbo Peng, Zhenkai Zhang
34	A210673	Chao Li (BIT, China)	Reliability-based multidisciplinary design optimization of fiber-reinforced polymer structure Chao Li, Xiaokai Chen
35	A220913	Xiang Peng (Zhejiang UT, China)	An efficient variance-based sensitivity analysis method with uncertainties of input variables and their distribution parameters Shaofei Jiang, Xiaoqing Xu, Xiang Peng, Jiquan Li
36	A230621	Pengfei Wang (China Academy of Space Technology, China)	An approach on the mechanical characterization of elastomeric materials Pengfei Wang, Yan Zhang, Bingyang Li, Yingze Cao
37	A240328	Ming Zhu (Shanghai UST, China)	Topology optimization for structure design of machine tool based on dynamic performance Ming Zhu, Xiaohong Ding
38	A240543	Yan Wang (DUT, China)	Size-topology hybrid optimization of stiffened structures with cutouts based on adaptive design domain Yan Wang, Kuo Tian, Shengli Xu, Bo Wang
39	A240564	Yuan Wang (Marine Des. Res. Inst., China)	Mid-ship section structure optimization tool development based on excel-Mars2000-ISIGHT platform Yuan Wang, Jia-meng Wu
40	A240735	Kaiyang Li (BUAA, China)	Structural dynamic optimization design based on natural vibration mode Kaiyang Li, Bing Sun, Jie Fang, Yi Li, Shuang Zhou
41	A240782	Qi Li	The optimization of truss structure under dynamic load via the DCA Qi Li
42	A250909	Casper Andreasen (DTU, Denmark)	Robust shape and topology optimization using CutFEM Casper Schousboe Andreasen, Niels Aage

43	A250894	Wenchao Liu (Wuhan UT, China)	Topological optimization of additive manufacturable scaffolds with maximizing flow permeability and constrained volume fraction Wenchao Liu, Pin Wen
44	A240847	Chenggong Zheng (Jilin University, China)	Structural optimization for vehicle layer plate structure using asymptotic homogenization method Zheng Chenggong, Liu Yunfei, Zuo Wenjie, Cheng Fei
45	A240851	Sergey Tuktarov (Aerohydrodynamic Institute, Russia)	Topology/sizing structural optimization method with account of stiffness and stress constraints Vasily Chedrik, Sergey Tuktarov
46	A240881	Bryn Jones (University of Aberdeen, UK)	Geometrically nonlinear beam reduction method for structural optimization Bryn Jones, Peter Dunning, Alireza Maheri
47	A250316	Kai Long	Stress-constrained topology optimization of continuum structures using sequential quadratic programming Kai Long
48	A250341	Yuchen Guo (University CAS, China)	The effect of size control in topology optimization of microfluidic devices Yuchen Guo, Hui Pan, Yongbo Deng, Eddie Wadbro, Zhenyu Liu
49	A250343	Qi Xia (HUST, China)	Using material removal scheme of BESO for hole nucleation in level set based topology optimization Qi Xia, Tielin Shi, Liang Xia
50	A250350	Ruiwu Lei (NPU, China)	An integrated framework for aerostructural shape and topology optimization of aerospace components Ruiwu Lei, Junqiang Bai, Danyang Xu, Ming Li, Hui Wang
51	A250386	Haitao Han (University CAS, China)	Topological constraints in structural topology optimization Haitao Han, Yuchen Guo, Yongbo Deng, Shikui Chen, Zhenyu Liu
52	A250425	Yu Li (NPU, China)	Shape preserving design with structural topology optimization considering large deformations Yu Li
53	A250455	Lin Yuan (Qingdao University, China)	Multi-objective topology optimization design of the electric vehicle battery enclosure Lin Yuan, Qinghai Zhao
54	A250849	Junxia Zhu (Marine Design & Research Inst. of China, China)	The Optimal Design of Ship Pillars Based on Variable Density Method Junxia Zhu, Jiameng Wu, Yuan Wang
55	A250574	Jianhongyu Li (Beijing Inst. Spacecraft Environ. Eng., China)	Structural strengthening of Solar Wings using topology optimization for frequency response Jianhongyu Li, Hwei Peng
56	A250578	Vu Truong Vu (HCM City University of Transport, Vietnam)	Bidirectional evolutionary structural optimization with random starts Vu Truong Vu

57	A250604	Xing Chen (Central South University, China)	Two-scale structural topology optimization based on continuous medium cross-scale method Xing Chen, Song Yao
58	A250616	Chunpeng Wang (Central South University, China)	A simple and practical topology optimization neighborhood fast algorithm Chunpeng Wang, Song Yao
59	A250629	Kaike Yang (NPU, China)	Topology optimization of shape memory alloy actuators for desired structural deformation Kaike Yang, Jihong Zhu, Jie Hou, Xiaojun Gu
60	A250650	Chih-Hsing Liu (National Cheng Kung University, Taiwan, China)	Three-dimensional topology optimization design of an elastomer mount with stiffness requirements in vertical and transverse directions Chih-Hsing Liu, Yen-Pin Chiang, Yi-Yao Hsu
61	A250666	Qiang Zhou (XIE Archi-Structure Design, China)	Applications of Ameba - a new topology optimization tool Qiang Zhou, Zhi Li, Yuan Yao, Yi Min Xie
62	A250681	Jiaxin Liu (South China UT, China)	Parameterized level-set based topology optimization for continuous structures with self-weights Jiaxin Liu, Peng Wei, Zuyu Li
63	A250684	Yinfeng Cao (NPU, China)	Precise control of output loads with structural topology optimization Yinfeng Cao, Jihong Zhu
64	A250705	Shaoying Li (NPU, China)	Topology optimization considering material anisotropy induced by building orientation in stereolithography Shaoying Li, Jihong Zhu, Jiang Li, Weihong Zhang, Shangqin Yuan
65	A250748	Sivasankar Arul	A parallel library for density filter regularization for large scale topology optimization solver Sivasankar Arul
66	A250756	Yanzhang Dong (Hubei UAT, China)	Topology optimization of the metamaterial microstrip antenna for high gain within K-band based on the genetic algorithm Zhou Jinghao, Dong Yanzhang
67	A250772	Yongbo Peng (Tongji, China)	Substructure-based model reduction technique in damper deployment optimization for wind-induced vibration control of high-rise buildings Youwei Chen, Jianbing Chen, Yongbo Peng, H. Jensen
68	A250798	Jing Cao (Xi'an UT, China)	Inner sequential single solid optimization method for layout design of multi-materials Jing Cao, Kun Cai
69	A250818	Alain Garaigordobil (University of the Basque Country, Spain)	Application of the sequential element admission and rejection (SERA) topology optimization discrete method to steady-state heat transfer problems Alain Garaigordobil, Rubén Ansola, Javier Canales
70	A250966	Lei Xu (DUT, China)	Topology optimization of the coupled structure-acoustic system based on moving morphable components (MMC) method Lei Xu, Xu Guo, Weisheng Zhang

71	A250512	Peng Wei (South China UT, China)	A level set based method for topology optimization of continuums Peng Wei, Yang Yang, Wenwen Wang, Michael Yu Wang
72	A240820	Fabian Wein (Zentralinstitut Sci. Comp., Germany)	On the interpretation of partially covered elements by pseudo-density Fabian Wein, Peter D. Dunning, Julián Norato
73	A240790	Julian Norato (Connecticut, USA)	A review and comparative study of techniques for combination of geometric features in structural optimization Julián Norato, Peter D. Dunning, Fabian Wein
74	A120822	Peter Dunning (University of Aberdeen, UK)	A Review of Feature-Mapping Methods for Structural Optimization Peter D. Dunning, Julián Norato, Fabian Wein
75	A160675	Akira Saito (Meiji University, Japan)	Optimal sensor placement for vibration-based damage detection Akira Saito, Daichi Sakamoto
76	A050975	Matthew Gilbert (University of Sheffield, UK)	Holistic Optimization of Offshore Wind Turbine Support Structures and Foundations Slimane Ouakka, Colin Smith, Matthew Gilbert
77	A050378	Jae-Jun Lee (KEPCO Nuclear Fuel, Korea)	Optimization of Preload for Handling Reinforcement Device of Spent Nuclear Fuel Using Regression Curve Jae-Jun Lee, Hyeong-Koo Kim, Seong-Ki Lee, Jong-Sung Yoo
78	A250932	Xu Guo (DUT, China)	An efficient moving morphable component (MMC)-based approach for multi-resolution topology optimization Xu Guo, Chang Liu