

International Conference on Geometric Modeling and Processing (GMP 2022)

May 11th 2022 (online)

Conference programme

All times are in JST (UTC +9:00). Please check your local time.

Wednesday, May 11th 2022

15:00 – 15:15	Conference/Program Co-chairs	Opening
15:15 – 16:00	George Allen	Geometry for Engineering: Past, Present, and Future
16:00 – 16:15	SHORT BREAK	
16:15 – 16:30	Artem Komarichev , Jing Hua and Zichun Zhong	Learning Geometry-Aware Joint Latent Space for Simultaneous Multimodal Shape Generation
16:30 – 16:45	Q Youn Hong and Gershon Elber	Detection and computation of conservative kernels of models consisting of freeform curves and surfaces, using inequality constraints
16:45 – 17:00	Jinesh Machchhar	A Unified Algebraic Framework for Fast and Precise Planar Swept Volumes and Minkowski Sums
17:00 – 17:15	Lincong Fang, Yingli Peng , Yujun Li and Juan Cao	Classification of polynomial minimal surfaces
17:15 – 17:30	Manoj Kumar Mukundan and Ramanathan Muthuganapathy	A parallel algorithm for computing Voronoi diagram of a set of circles using touching disc and topology matching
17:30 – 17:45	SHORT BREAK	
17:45 – 18:00	Steffen Hinderink , Manish Mandad and Marcel Campen	Angle-Bounded 2D Mesh Simplification
18:00 – 18:15	Xiao Dong , Yanyang Xiao, Zhonggui Chen, Junfeng Yao and Xiaohu Guo	GPU-based Supervoxel Segmentation for 3D Point Clouds
18:15 – 18:30	Manish Mandad , Ruizhi Chen, David Bommers and Marcel Campen	Intrinsic Mixed-Integer Polycubes for Hexahedral Meshing
18:30 – 18:45	Ye Ji , Mengyun Wang, Maodong Pan, Yi Zhang and Chungang Zhu	Penalty function-based volumetric parameterization method for isogeometric analysis
18:45 – 19:00	Dandan Wang , Jinlan Xu, Fei Gao, Charlie Wang, Renshu Gu, Fei Lin, Timon Rabczuk and Gang Xu	IGA-Reuse-NET: A deep-learning-based isogeometric analysis-reuse approach with topology-consistent parameterization
19:00 – 19:15	SHORT BREAK	
19:15 – 19:30	Aziz Ikemakhen and Alaa Eddine Bensed	Hyperbolic Barycentric Coordinates and Applications
19:30 – 19:45	Kanika Rajain , Oleksii Sliusarenko, Michal Bizzarri and Michael Barton	Curve-guided 5-axis CNC flank milling of free-form surfaces using custom-shaped tools
19:45 – 20:00	Nira Dyn, Kai Hormann and Claudio Mancinelli	Non-uniform interpolatory subdivision schemes with improved smoothness
20:00 – 20:15	Guangshun Wei , Zhiming Cui, Jie Zhu, Lei Yang, Yuanfeng Zhou, Pradeep Singh, Min Gu and Wenping Wang	Dense Representative Tooth Landmark/axis Detection Network on 3D Model
20:15 – 20:30	SHORT BREAK	
20:30 – 21:15	Jianmin Zheng	3D Face Modeling and Processing with Reality Computing
21:15 – 21:30	Conference/Program Co-chairs	Closing

Please register in advance for this meeting:

https://oist.zoom.us/meeting/register/tJAqdeurqzstE91TMbttxM_XeXeOMVZb-hso