

DAY 4 - THURSDAY, 6th JULY 2023												
8:30-9:00	9:00-10:00	10:00-10:45	10:45-12:45		12:45-14:00	14:00-15:00	15:00-16:00		16:00-16:30	16:30-18:00		18:00-18:30
	Invited Speaker (San Salvatore)	Coffee Break (Chioistro DAD)	SMI	Room 0B	Lunch (Chioistro DAD)	Invited Speaker (Rooms 1A+1B)	SMI	Room 0B	Coffee Break (Chioistro DAD)	SPM	Room 0B	
			GD	Room 1A		GD (Session 1)	Room 1A					
			SPM	Room 1B		SPM	Room 1B	GD (Session 2)		Room 1B		
			GMP	Room 5H		GMP	Room 5H	GMP		Room 5H		

DETAILED PROGRAM				
	ROOM 0B (ground floor)	ROOM 1A (first floor)	ROOM 1B (first floor)	ROOM 5H (near the poster location)
9:00-10:00	<b>Thomas Kolbe, Spatio-Semantic Modeling for Urban Digital Twins</b> (Session chair: Michela Spagnuolo) (Room: San Salvatore)			
10:00-10:45	Coffee Break and Poster Session (Chioistro DAD)			
10:45-12:45	<b>SMI: SKETCH-BASED CAD &amp; SURFACE RECONSTRUCTION</b> (Session chair: Raphaelle Chaine) <ul style="list-style-type: none"> <li>- <b>Chao Zhang</b>, Romain Pinquié, Arnaud Polette, Gregorio Carasi, Henri Gautier De Charnace, Jean-Philippe Pernot, <i>Automatic 3D CAD models reconstruction from 2D orthographic drawing</i></li> <li>- Chuan Jin, Tieru Wu, Junsheng Zhou, <i>Multi-Grid Representation with Field Regularization for Self-Supervised Surface Reconstruction from Point Cloud</i> - presenter: <b>Yanyang Xiao</b></li> <li>- <b>Xiaoyuan Wang</b>, Yang Li, Adnane Boukhayma, Changbo Wang, Marc Christie, <i>Contact-conditioned hand-held object reconstruction from single-view Images</i></li> <li>- <b>Sato Saga</b>, <i>An interactive sketch-based CAD interface realizing geometrical and topological editing across multiple objects based on fuzzy logic</i></li> </ul>	<b>GD: ANALYSIS, DESIGN, AND MANUFACTURING USING MICROSTRUCTURES</b> (Session chair: Michael Barton) <ul style="list-style-type: none"> <li>- <b>Youngjin Park</b>, Q Youn Hong, Myung-Soo Kim, Gershon Elber, <i>Microstructure construction for freeform surfaces with simple bisectors</i></li> <li>- <b>Jacques Zwar</b>, Chamoin Ludovic, Elgeti Stefanie, <i>Gradient-based optimization of geometries comprised of CAD-compliant microstructures</i></li> <li>- <b>Q Youn Hong</b>, Youngjin Park, Gershon Elber, <i>Conformal microstructure synthesis in trimmed trivariate based V-reps and B-reps</i></li> <li>- <b>Georges-Pierre Bonneau</b>, Stefanie Hahmann, <i>Geometric construction of disordered auxetic meta-materials</i></li> </ul>	<b>SPM: METHODS FOR ADDITIVE MANUFACTURING</b> (Session chair: Tsz Ho Kwok) <ul style="list-style-type: none"> <li>- <b>Depend Gao</b>, Hongwei Lin, Zibin Li, <i>Free-form multi-level porous model design based on truncated hierarchical B-spline functions</i></li> <li>- <b>Jiacong Yan</b>, Hongwei Lin, <i>Adaptive slicing of implicit porous structure with topology guarantee</i></li> <li>- <b>Tianyu Zhang</b>, Guoxin Fang, Yuming Huang, Neelotpal Dutta, Sylvain Lefebvre, Zekai Murat Kilic, Charlie CL Wang, <i>S<sup>3</sup>Slicer: A general slicing framework for multi-axis 3D printing</i></li> <li>- <b>Ergun Akleman</b>, Vinayak Krishnamurthy, Laxmi Poudel, Matthew Ebert, Daniel H. Weber, Rencheng Wu, Wenchao Zhou, Zhenghui Sha, <i>LayerLock: Layer-Wise Collision-Free Multi-Robot Additive Manufacturing Using Topologically Interlocked Space-Filling Shapes</i></li> </ul>	<b>GMP: SPLINES</b> (Session chair: Jiri Kosinka) <ul style="list-style-type: none"> <li>- Jan Groselj, <b>Hendrik Speleers</b>, <i>Extraction and application of super-smooth cubic B-splines over triangulations</i></li> <li>- Bert Jüttler, Lisa Groiss, Maodong Pan, <i>Local linear independence of C<sup>s</sup>-smooth bivariate tensor-product B-splines of degree p=2s+1 on hierarchical T-meshes</i> (speaker: <b>Felix Scholz</b>)</li> <li>- Roland Maier, Philipp Morgenstern, <b>Thomas Takacs</b>, <i>Adaptive refinement for unstructured T-splines with linear complexity (CAGD)</i></li> <li>- <b>Esfandiar Nava-Yazdani</b>, Christoph von Tycowicz, Felix Ambellan, Martin Hanik, <i>Sasaki Metric for Spline Models of Manifold-Valued Trajectories</i></li> </ul>
12:45-14:00	Lunch (Chioistro DAD)			
14:00-15:00	<b>Keenan Crane, Monte Carlo Geometry Processing</b> (Session chair: Marcel Campen) (Rooms: 1A+1B)			
15:00-16:00	<b>SMI: AWARDS</b> (Session chair: Joaquim Jorge)	<b>GD: AWARDES</b> (Session chair: Hendrik Speleers)	<b>SPM: SUBDIVISION SURFACES</b> (Session chair: Lucia Romani) <ul style="list-style-type: none"> <li>- <b>Jorg Peters</b>, Kestutis Karciauskas, <i>Improved Caps for Improved Subdivision Surfaces</i></li> <li>- <b>Xu Wang</b>, Weiyin Ma, <i>An extended tuned subdivision scheme with optimal convergence for isogeometric analysis</i></li> </ul>	<b>GMP: SURFACE PARAMETRIZATION</b> (Session chair: Daniel Zint) <ul style="list-style-type: none"> <li>- Fernando de Goes, Jacques-Olivier Lachaud, David Coeurjolly, <b>Colin Weill-Duflos</b>, <i>Joint optimization of distortion and cut location for mesh parameterization using the Ambrosio-Tortorelli functional</i></li> <li>- Matthias Möller, Kewang Chen, <b>Ye Ji</b>, Cornelis Vuik, <i>On an improved PDE-based elliptic parameterization method for isogeometric analysis using preconditioned Anderson acceleration</i></li> </ul>
16:00-16:30	Coffee Break and Poster Session (Chioistro DAD)			
16:30-18:00	<b>SPM: MESHLESS, MESH AND TOPOLOGY OPTIMIZATION</b> (Session chair: Vadim Shapiro) <ul style="list-style-type: none"> <li>- <b>Jiangbei Hu</b>, Yu Jiang, Shengfa Wang, Na Lei, Zhongxuan Luo, Ligang Liu, <i>Meshless Optimization of Triply Periodic Minimal Surface-based Two-fluid Heat Exchanger</i></li> <li>- <b>Amir Mirzendehtdel</b>, Morad Behandish, <i>Co-design Optimization of Moving Parts for Compliance and Collision Avoidance</i></li> <li>- <b>Shi Chen</b>, Runze Yang, Long Ma, Minfeng Xu, Yuanfeng Zhou, <i>Hybrid Optimization-based Cutting Simulation for Soft Objects</i></li> </ul>	<b>GD: CONTRIBUTED TALKS</b> (Session chair: Francesca Pelosi) <ul style="list-style-type: none"> <li>- Soo Hyun Kim, Song-Hwa Kwon, <b>Hwan Pyo Moon</b>, <i>High-degree polynomial curve design using the hodograph control polygons</i></li> <li>- Kai Hormann, Lucia Romani, <b>Alberto Viscardi</b>, <i>New algebraic and geometric characterizations of planar quintic Pythagorean-hodograph curves</i></li> <li>- <b>Soo Hyun Kim</b>, Hwan Pyo Moon, <i>Interpolation method for quintic MPH over PH curves</i></li> </ul>	<b>GD: CONTRIBUTED TALKS</b> (Session chair: Weiyin Ma) <ul style="list-style-type: none"> <li>- <b>Severinas Zube</b>, Rimvydas Krasauskas, <i>Quaternionic Bézier parametrizations of bi-degree (2,1)</i></li> <li>- <b>Krassimira Vlachkova</b>, <i>Testing tensor product Bézier surfaces for coincidence</i></li> <li>- Ji Li, Thomas Peters, <b>Peter Zaffetti</b>, Kirk Jordan, <i>Approximating Bézier surfaces by their topologically equivalent control net surfaces</i></li> </ul>	<b>GMP: GEOMETRIC OPERATORS FOR CENTERS, SUMS, AND CONTACTS</b> (Session chair: Xiaohu Guo) <ul style="list-style-type: none"> <li>- <b>Claudio Mancinelli</b>, Enrico Puppo, <i>Computing the Riemannian Center of Mass on Meshes</i></li> <li>- <b>Haitam Fadila</b>, Gershon Elber, Q Youn Hong, <i>Kernel-based Construction Operators for Boolean Sum and Ruled Geometry</i></li> <li>- <b>M. Brozos-Vázquez</b>, M.J. Pereira-Sáez, A.B. Rodríguez-Raposo, M. J. Souto-Salorio, A.D. Tarrío-Tobar, <i>Contact detection between a small ellipsoid and another quadric (CAGD)</i></li> </ul>