

IGS'23



SPM	SPM'23 - Symposium on Physical and Solid Modeling 2023 - July 5-7
GD	GD'23 – SIAM Conference on Computational Geometric Design 2023 - July 3-7
SGP	SGP'23 - EG Symposium on Geometry Processing 2023 - July 3-5
SMI	SMI'23 - Shape Modeling International 2023 - July 4-6
GMP	GMP'23 – Geometric Modeling and Processing 2023 - July 6-7

DAY 1 - MONDAY, 3rd 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
Opening Session (San Salvatore)	Invited Speaker T. Kim (San Salvatore)	Coffee Break and Poster Session (Chiostro DAD)	SGP	Room 0B	Lunch (Chiostro DAD)	Invited Speaker S. McMains (Rooms 1A+1B)	SGP	Room 0B	Coffee Break and Poster Session (Chiostro DAD)	SGP	Room 0B	
			GD (Session 1)	Room 1A			GD (Session 1)	Room 1A		GD (Session 1)	Room 1A	
			GD (Session 2)	Room 1B			GD (Session 2)	Room 1B		GD (Session 2)	Room 1B	

DAY 2 - TUESDAY, 4th 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 A. Bobenko (San Salvatore)	Coffee Break and Poster Session (Chiostro DAD)	SGP	Room 0B	Lunch (Chiostro DAD)	Invited Speaker A. Dai (Rooms 1A+1B)	SGP	Room 0B	Coffee Break and Poster Session (Chiostro DAD)	SGP	Room 0B	
GD			Room 1A	GD			Room 1A	GD		Room 1A		
SMI			Room 1B	SMI			Room 1B	SMI		Room 1B		

DAY 3 - WEDNESDAY, 5th 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 J. Peters (San Salvatore)	Coffee Break and Poster Session (Chiostro DAD)	SGP	Room 0B	Lunch (Chiostro DAD)	Invited Speaker X.D. Gu (Rooms 1A+1B)	SMI	Room 0B	Coffee Break and Poster Session (Chiostro DAD)	SGP	Room 0B	
GD			Room 1A	GD (Session 1)			Room 1A	GD		Room 1A		
SMI			Room 1B	GD (Session 2)			Room 1B	SPM		Room 1B		
SPM			Room 5H	SPM			Room 5H	GMP		Room 5H		

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 T. Kolbe (San Salvatore)	Coffee Break and Poster Session (Chiostro DAD)	SMI	Room 0B	Lunch (Chiostro DAD)	Invited Speaker K. Crane (Rooms 1A+1B)	SMI	Room 0B	Coffee Break and Poster Session (Chiostro DAD)	SPM	Room 0B	
GD			Room 1A	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		

DAY 5 - FRIDAY, 7th 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 D. Panozzo (San Salvatore)	Coffee Break and Poster Session (Chiostro DAD)	SPM	Room 0B	Lunch (Chiostro DAD)	Invited Speaker H. Samet (Rooms 1A+1B)	SPM	Room 0B	Coffee Break and Poster Session (Chiostro DAD)	SPM	Room 0B	Closing Session
GD			Room 1A	GD			Room 1A	GD (Session 1)		Room 1A		
GMP			Room 1B	SCULPT			Room 1B	GD (Session 2)		Room 1B		

DAY 1 - MONDAY, 3rd 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
Opening Session	Invited Speaker (San Salvatore)	Coffee Break (Chiostro DAD)	SGP	Room 0B	Lunch (Chiostro DAD)	Invited Speaker (Rooms 1A+1B)	SGP	Room 0B	Coffee Break (Chiostro DAD)	SGP	Room 0B	
			GD (Session 1)	Room 1A			GD (Session 1)	Room 1A		GD (Session 1)	Room 1A	
			GD (Session 2)	Room 1B			GD (Session 2)	Room 1B		GD (Session 2)	Room 1B	

DETAILED PROGRAM					
ROOM 0B (ground floor)		ROOM 1A (first floor)		ROOM 1B (first floor)	
8:30-9:00 Opening Session (Room: San Salvatore)					
9:00-10:00 Theodore Kim, <i>The Character of Computer Animation Research</i> (Session chair: Justin Solomon) (Room: San Salvatore)					
10:00-10:45 Coffee Break and Poster Session (Chiostro DAD)					
10:45-12:45 SGP: MESHING (Session chair: Pierre Alliez) - Ingmar Ludwig, Daniel Tyson, Marcel Campen, <i>HalfedgeCNN for Native and Flexible Deep Learning on Triangle Meshes</i> - Francesco Zoccheddu, Enrico Gobetti, Marco Livesu, Nico Pietroni, Gianmarco Cherchi , <i>HexBox: Interactive Box Modeling of Hexahedral Meshes</i> - Kestutis Karciauskas, Jorg Peters, <i>Quadratic-Attraction Subdivision</i> - Yuyou Yao, Jingjing Liu, Yue Fei, Wenming Wu, Gaofeng Zhang, Dongming Yan, Liping Zheng, <i>PowerRTF: Power Diagram based Restricted Tangent Face for Surface Remeshing</i>		10:45-12:45 GD: PAUL DE FAGET DE CASTELJAU, A PIONEER IN CAGD: HIS WORK AND SOME DIRECT CONSEQUENCES (Session chair: Kai Hormann) - Hartmut Prautzsch, <i>The many aspects of de Casteljau's algorithm – A historical review</i> - Javier Sánchez-Reyes, <i>Shape factors and the uniqueness of the rational Bézier form</i> - J. Delgado, Esmeralda Mainar , J. M. Peña, <i>On the accuracy of de Casteljau-type algorithms and Bernstein representations</i> - Filip Chudy, Paweł Woźny, <i>Computing the Bernstein–Bézier coefficients of B-spline basis functions over one knot span</i>		10:45-12:45 GD: ISOGEOMETRIC MODELING (Session chair: Thomas Takacs) - Alessandro Reali, <i>An overview of advanced isogeometric simulations involving complex geometries</i> - Deepesh Toshniwal, Thomas Takacs, Kendrick Shepherd, <i>Almost-C' splines</i> - Annalisa Buffa, Ondine Chanon , Rafael Vazquez, <i>The impact of geometric defeaturing on the accuracy of PDE solutions</i> - Ulrich Reif, <i>Modeling and Simulation with ABC-Splines</i>	
12:45-14:00 Lunch (Chiostro DAD)					
14:00-15:00 Sara McMains, <i>From Alpha to Voronoi</i> (Session chair: Lucia Romani) (Rooms: 1B + 1A)					
15:00-16:00 SGP: 2D GEOMETRY (Session chair: Etienne Corman) - Olga Gutan, Shreya Hegde, Erick Jimenez Berumen, Mikhail Bessmeltsev, Edward Chien, <i>Singularity-Free Frame Fields for Line Drawing Vectorization</i> - Peter Rong, Tao Ju , <i>Variational Pruning of Medial Axes of Planar Shapes</i>		15:00-16:00 GD: SUBDIVISION AND REFINABILITY (Session chair: Lucia Romani) - Hyoseon Yang, Jungho Yoon , <i>A family of four-point stationary subdivision schemes with fourth-order accuracy, C² smoothness and shape preserving properties</i> - Weiyin Ma , Xu Wang, Yue Ma, <i>Constructing tuned subdivision schemes with desired properties for different target applications</i>		15:00-16:00 GD: ISOGEOMETRIC MODELING (Session chair: Deepesh Toshniwal) - David Xianfeng Gu, <i>Structured mesh generation for IGA</i> - Fehmi Cirak , Kim Jie Koh, Deepesh Toshniwal, <i>Optimally convergent smooth blended B-splines for unstructured quadrilateral and hexahedral meshes</i>	
16:00-16:30 Coffee Break and Poster Session (Chiostro DAD)					
16:30-18:00 SGP: DETAILS ON SURFACES (Session chair: Julie Digne) - Chen Lan , Gao Lin, Yang Jie, Xu Shibiao, YE Juntao, Zhang Xiaopeng, Lai Yu-Kun, <i>Deep Deformation Detail Synthesis for Thin Shell Models</i> - Sebastian Weiss , Jonathan Moulin, Prashanth Chandran, Gaspard Zoss, Paulo Gotardo, Derek Bradley, <i>Graph Simulation for Skin Micro Wrinkles</i> - Alexa Schor , Theodore Kim, <i>A Shape Modulus for Fractal Geometry Generation</i>		16:30-18:00 GD: SUBDIVISION AND REFINABILITY + CONTRIBUTED TALK (Session chair: Alberto Viscardi) - Thomas Yu , <i>Conforming subdivision methods vs non-conforming methods for geometric variational problems</i> - Vladimir Protasov , Tatyana Zaitseva, <i>The multivariate tile splines: subdivisions and surface approximation</i>		16:30-18:00 GD: ISOGEOMETRIC MODELING + CONTRIBUTED TALK (Session chair: Deepesh Toshniwal) - Thomas Takacs , <i>Smooth multi-patch spline constructions for IGA</i> - Jochem Hinz , Annalisa Buffa, <i>PDE-based parameterisation techniques for planar and extruded multipatch domains</i> - Christopher-Denny Matte , Tsz-Ho Kwok, <i>Modeling elastic friction for the simulation of cable-driven soft robots</i>	
18:30-20:00 Welcome Reception (Roof Garden)					

DAY 2 - TUESDAY, 4th 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 (Chiostro DAD)	SGP GD SMI	Room 0B Room 1A Room 1B	Lunch (Chiostro DAD)	Invited Speaker (Rooms 1A+1B)	SGP GD SMI	Room 0B Room 1A Room 1B	Coffee Break (Chiostro DAD)	SGP GD SMI	Room 0B Room 1A Room 1B	

DETAILED PROGRAM

	ROOM 0B (ground floor)	ROOM 1A (first floor)	ROOM 1B (first floor)
9:00-10:00	Alexander Bobenko , <i>Structure preserving discretizations: Towards generalizations of conformal maps and circle patterns</i> (Session chair: Pooran Memari) (Room: San Salvatore)		
10:00-10:45	Coffee Break and Poster Session (Chiostro DAD)		
10:45-12:45	SGP: SURFACE RECONSTRUCTION (Session chair: Andreas Baerentzen) - Daniel Zint, Pierre Alliez, Mael Rouxel-Labbe, Nissim Maruani, <i>Feature-Preserving Offset Mesh Generation from Topology-Adapted Octrees</i> - Maximilian Kohlbrenner, Sing Chun Lee, Misha Kazhdan, Marc Alexa, <i>Poisson Manifold Reconstruction - Beyond Co-dimension One</i> - Dmitry Petrov, Matheus Gadelha, Radomir Mech, Evangelos Kalogerakis , <i>ANISE: Assembly-based Neural Implicit Surface reconstruction (TVCG)</i> SGP Test-Of-Time Award	GD: ALGEBRAIC SPLINE GEOMETRY (Session chair: Cesare Bracco) - Andrea Bressan, <i>A construction of locally-linearly-independent LR-spline satisfying an anisotropic constraint on the space resolution</i> - Angelos Mantzaflaris, <i>Spline spaces, sparse nullspace basis and locally supported bases</i> - Domingo Barrera, Salah Eddargani, María José Ibáñez, Sara Remogna , <i>Low-degree univariate spline quasi-interpolants in Bernstein-Bézier form</i> - Cesare Bracco , <i>Algebraic insights into spline spaces constructions</i>	SMI: GEOMETRY PROCESSING (Session chair: Daniela Giorgi) - Guillaume Gisbert, Raphaëlle Chaine, David Coeurjolly, <i>Inpainting Holes In Folded Fabric Meshes</i> - Lidija Comic, Paola Magillo , <i>Crossing-Free Paths in the Square Grid</i> - Erkan Gunginar , Marco Livesu, Marco Attene, <i>Exploration of 3D Motorcycle Complexes from Hexahedral Meshes</i> - Rafael Kuffner dos Anjos, Richard Andrew Roberts, Benjamin Allen, Joaquim Jorge , Ken Anjyo, <i>Saliency Detection for Large-Scale Mesh Decimation</i>
12:45-14:00	Lunch (Chiostro DAD)		
14:00-15:00	Angela Dai , <i>Learned Parametric 3D Shape Models</i> (Session chair: Georges-Pierre Bonneau) (Rooms: 1A+1B)		
15:00-16:00	SGP: DEFORMATION (Session chair: Niloy Mitra) - Ugo Finnen Dahl , Matthias Schwartz, Marc Alexa, <i>ARAP Revisited: Discretizing the Elastic Energy using Intrinsic Voronoi Cells (CGF)</i> - Qingjun Chang , Chongyang Deng, Kai Hormann, <i>Maximum Likelihood Coordinates</i>	GD: APPLIED GEOMETRY, RATIONAL MOTIONS, AND PYTHAGOREAN-HODOGRAPH CURVES (Session chair: Hans-Peter Schröcker) - Johannes Siegele, <i>Synthesis of Mechanisms performing a prescribed Rational Motion</i> - Georg Nawratil , <i>On rigid-foldable structures of the T- and V-hedral type</i>	SMI: SCENE UNDERSTANDING (Session chair: Amir Vaxman) - Jiahao Cui , Shuai Li, Fei Hou, Aimin Hao, Hong Qin, <i>Analyzing Part Functionality via Multi-modal Latent Space Embedding and Interweaving</i> - Olivier Pradelle , Raphaëlle Chaine, David Wendland, Julie Digne, <i>Lightweight integration of 3D features to improve 2D image segmentation</i>
16:00-16:30	Coffee Break and Poster Session (Chiostro DAD)		
16:30-18:00	SGP: POINT CLOUDS AND SCENES (Session chair: Oded Stein) - Marios Loizou , Siddhant Garg, Dmitrii Petrov, Melinos Averkiou, Evangelos Kalogerakis, <i>Cross-Shape Attention for Part Segmentation of 3D Point Clouds</i> - Jacques-Olivier Lachaud , David Coeurjolly, Céline Labart, Pascal Romon, Boris Thibert, <i>Lightweight Curvature Estimations on Point Clouds with Randomized Corrected Curvature Measures</i> - Yu-Shiang Wong , Niloy Mitra, <i>Factored Neural Representation for Scene Understanding</i>	GD: APPLIED GEOMETRY, RATIONAL MOTIONS, AND PYTHAGOREAN-HODOGRAPH CURVES + CONTRIBUTED TALK (Session chair: Alessandra Sestini) - Marijeta Knez , Rida T. Farouki, Vito Vitrih, Emil Žagar, <i>On the construction of polynomial minimal surfaces with Pythagorean normals</i> - Francesca Pelosi , Rida T. Farouki, Maria Lucia Sampoli, <i>Construction of planar quintic Pythagorean-Hodograph curves by control-polygon constraints</i> - Hans-Peter Schröcker , Zbyněk Šír, <i>Three ways to compute rational curves with rational arc length</i>	SMI: MESHLESS AND IMPLICIT (Session chair: Ergun Akleman) - Mattéo Clémot , Julie Digne, <i>Neural skeleton: implicit neural representation away from the surface</i> - Melike Aydinlilar , Cédric Zanni, <i>Forward Inclusion Functions for Ray-Tracing Implicit Surfaces</i> - Yanyang Xiao , Juan Cao, Shaoping Xu, Zhonggui Chen, <i>Meshless Power Diagrams</i> - Yanran Guan , Andrei Chubarau, Ruby Rao, Derek Nowrouzezahrai, <i>Learning neural implicit representations with surface signal parameterizations</i>
18:00-18:30			

DAY 3 - WEDNESDAY, 5th 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 (Chiostro DAD)	SGP	Room 0B	Lunch (Chiostro DAD)	Invited Speaker (Rooms 1A+1B)	SMI	Room 0B	Coffee Break (Chiostro DAD)	SGP	Room 0B	
			GD	Room 1A		GD (Session 1)	Room 1A	GD		Room 1A		
			SMI	Room 1B		GD (Session 2)	Room 1B	SPM		Room 1B		
			SPM	Room 5H		SPM	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	Jorg Peters, Surfaces: Modelling and Analysis (Session chair: Jiri Kosinka) (Room: San Salvatore)			
10:00-10:45	Coffee Break and Poster Session (Chiostro DAD)			
10:45-12:45	SGP: SHAPE CORRESPONDENCE (Session chair: Jing Ren) - Alessandro Raganato, Gabriella Pasi, <u>Simone Melzi</u> , <i>Attention And Positional Encoding Are (Almost) All You Need For Shape Matching</i> - <u>David Bensaid</u> , Noam Rotstein, Nelson Goldenstein, Ron Kimmel, <i>Partial Matching of Non rigid Shapes by Learning Piecewise Smooth Functions</i> - <u>Shir Rorberg</u> , Amir Vaxman, Mirela Ben-Chen, <i>BPM: Blended Piecewise Mobius Maps</i> - Gianmarco Cherchi, <u>Marco Livesu</u> , <i>VOLMAP: a Large Scale Benchmark for Volume Mappings to Simple Base Domains</i>	GD: INDUSTRIAL APPLICATIONS OF ROBUST GEOMETRY PROCESSING (Session chair: Dominik Mokriš) - <u>David Großmann</u> , <i>Geometric modelling in aircraft engine design</i> - <u>Charles Gueunet</u> , <i>Scales of Topology, from local to abstract views</i> - <u>Niloy Mitra</u> , <i>NeuroSymbolic Models for Geometry and Appearance</i> - <u>Daniel Sieger</u> , Daniel Faken, Matt Kamon, David Fried, <i>Efficient and Robust Virtual Fabrication for 3D Semiconductor Device Manufacturing</i>	SMI: CURVES AND SURFACES (Session chair: Gershon Elber) - <u>Felix Dellinger</u> , Xinye Li, Hui Wang, <i>Discrete Orthogonal Structures</i> - <u>Péter Salvi</u> , <u>Márton Vaitkus</u> , Tamás Várady, <i>Constrained modeling of multi-sided patches</i> - Kinga Kruppa, Roland Kunkli, <u>Miklós Hoffmann</u> , <i>A skinning technique for modeling artistic disk B-spline shapes</i> - <u>Takafumi Saito</u> , Norimasa Yoshida, <i>Curvature Monotonicity Evaluation Functions on Rational Bézier Curves</i>	SPM: LEARNING METHODS FOR MODELLING & MANUFACTURING (Session chair: Charlie Wang) - <u>Francesco Mezzadri</u> , Joshua Gasick, Xiaoping Qian, <i>A Framework for Physics-Informed Deep Learning Over Freeform Domains</i> - <u>Amir Mirzendehtdel</u> , Aaditya Chandrasekhar, Morad Behandish, Krishnan Suresh, <i>FRC-TOUNN: Topology Optimization of Continuous Fiber Reinforced Composites using Neural Network</i> - <u>Hezi Shi</u> , Luo Jiang, Jianmin Zheng, Jun Zeng, <i>Self-Parameterization Based Multi-Resolution Mesh Convolution Networks</i> - <u>George (Perry) Harabin</u> , Amir Mirzendehtdel, Morad Behandish, <i>Deep Neural Implicit Representation of Accessibility for Multi-Axis Manufacturing</i>
12:45-14:00	Lunch (Chiostro DAD)			
14:00-15:00	Xianfeng David Gu, Structured Mesh Generation (Session chair: Xiaohu Guo) (Room: 1A+1B)			
15:00-16:00	SMI: GEOMETRY & MATTER (Session chair: Chiara Eva Catalano) - Tolga Yildiz, <u>Ergun Akleman</u> , Matthew Ebert, Vinayak Krishnamurthy, <i>A Modular Approach for Creation of Any Bi-Axial Woven Structure</i> - Louis Pratt, Andrew Johnston, <u>Nico Pietroni</u> , <i>Bending the light: Next generation anamorphic sculptures</i>	GD: CONTRIBUTED TALKS (Session chair: Andrea Bressan) - <u>Alessandra Sestini</u> , <i>Features driven LR adaptive spline approximation of scattered data</i> - <u>Dominik Mokriš</u> , Bert Jüttler, <i>Using low-rank approximations of gridded data for spline surface fitting</i>	GD: CONTRIBUTED TALKS (Session chair: Esmeralda Mainar) - Alexandre Chemin, <u>Mattéo Couplet</u> , Jean-François Remacle, <i>Integrable frame fields for flexible quadrilateral meshing</i> - <u>Elena Scandurra</u> , Daniela Giorgi, Francesco Laccone, Luigi Malomo, Marco Callieri, Paolo Cignoni, <i>Computational design of fabricable geometric patterns</i>	SPM: SHAPE ANALYSIS & CLASSIFICATION (Session chair: Jianmin Zheng) - <u>Yann-Situ Gazull</u> , Aldo Gonzalez-Lorenzo, Alexandra Bac, <i>Computing Geometrical Measures of Topological Holes</i> - <u>Shanshan Yao</u> , Xiaohong Jia, <i>Topological Classification and Determination of Non-Degenerate Intersections of Two Dupin Cyclides</i>
16:00-16:30	Coffee Break and Poster Session (Chiostro DAD)			
16:30-18:00	SGP: REPRESENTATION & LEARNING (Session chair: Silvia Sellan) - <u>Thor Christiansen</u> , Jakob Andreas Bærentzen, Rasmus Paulsen, Morten Hannemose, <i>Neural Representation of Open Surfaces</i> - <u>Xiangyu Zhu</u> , Dong Du, Haibin Huang, Chongyang Ma, Xiaoguang Han, <i>3D Keypoint Estimation using Implicit Representation Learning</i> - <u>Simone Foti</u> , Bongjin Koo, Danail Stoyanov, Matthew J. Clarkson, <i>3D Generative Model Latent Disentanglement via Local Eigenprojection (CGF)</i>	GD: DEEP LEARNING FOR GEOMETRIC DESIGN (Session chair: Angelos Matzafllaris) - <u>Dennis Elbrächter</u> , <i>Rate-distortion optimal approximation with deep ReLU networks</i> - Carlotta Giannelli, <u>Sofia Imperatore</u> , Angelos Mantzafllaris, Felix Scholz, <i>Data driven adaptive spline fitting</i> - <u>Niloy Mitra</u> , <i>Enabling Sketch to CAD Design Workflows</i>	SPM: PATH PLANNING (Session chair: Gershon Elber) - <u>Marco Riboli</u> , Fabio Corradini, Marco Silvestri, Alessandra Aimi, <i>A New Framework for Joint Trajectory Planning Based on Time-Parameterized B-Splines</i> - <u>Kanika Rajain</u> , Michal Bizzarri, Miroslav Lávicka, Jiri Kosinka, Michael Barton, <i>Towards G¹-continuous multi-strip path-planning for 5-axis flank CNC machining of free-form surfaces using conical cutting tools</i> - <u>Guoyue Luo</u> , Qiang Zou, <i>A simple point-based iso-scallop tool path planning method for noisy point clouds with high robustness and controlled errors</i>	GMP: CURVE & SURFACE DESIGN & RECONSTRUCTION (Session chair: Konrad Polthier) - <u>Andriamahenina Ramanantoanina</u> , Kai Hormann, <i>Shape control tools for periodic Bézier curves</i> - <u>Xunnian Yang</u> , <i>Point-normal subdivision curves and surfaces (CAGD)</i> - Bin Wang, <u>Dong Xiao</u> , Bailin Deng, Zuoqiang Shi, Siyu Li, <i>Point Normal Orientation and Surface Reconstruction by Incorporating Isovalue Constraints to Poisson Equation</i>
18:00-18:30	SGP: BEST PAPER AWARDS - Dany Rios, <u>Felix Scholz</u> , Thomas Takacs, <i>Optimizing isogeometric discretizations using deep neural networks</i>			
20:30	Gala Dinner ("Il Marin" Restaurant at Eataly)			

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		GD (Session 2)	Room 1B					
			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	Thomas Kolbe, Spatio-Semantic Modeling for Urban Digital Twins (Session chair: Michela Spagnuolo) (Room: San Salvatore)			
10:00-10:45	Coffee Break and Poster Session (Chioistro DAD)			
10:45-12:45	SMI: SKETCH-BASED CAD & SURFACE RECONSTRUCTION (Session chair: Raphaelle Chaine) - Chao Zhang , Romain Pinquié, Arnaud Polette, Gregorio Carasi, Henri Gautier De Charnace, Jean-Philippe Pernot, <i>Automatic 3D CAD models reconstruction from 2D orthographic drawing</i> - Chuan Jin, Tieru Wu, Junsheng Zhou, <i>Multi-Grid Representation with Field Regularization for Self-Supervised Surface Reconstruction from Point Cloud</i> - presenter: Yanyang Xiao - Xiaoyuan Wang , Yang Li, Adnane Boukhayma, Changbo Wang, Marc Christie, <i>Contact-conditioned hand-held object reconstruction from single-view Images</i> - Sato Saga , <i>An interactive sketch-based CAD interface realizing geometrical and topological editing across multiple objects based on fuzzy logic</i>	GD: ANALYSIS, DESIGN, AND MANUFACTURING USING MICROSTRUCTURES (Session chair: Michael Barton) - Youngjin Park , Q Youn Hong, Myung-Soo Kim, Gershon Elber, <i>Microstructure construction for freeform surfaces with simple bisectors</i> - Jacques Zwar , Chamoin Ludovic, Elgeti Stefanie, <i>Gradient-based optimization of geometries comprised of CAD-compliant microstructures</i> - Q Youn Hong , Youngjin Park, Gershon Elber, <i>Conformal microstructure synthesis in trimmed trivariate based V-reps and B-reps</i> - Georges-Pierre Bonneau , Stefanie Hahmann, <i>Geometric construction of disordered auxetic meta-materials</i>	SPM: METHODS FOR ADDITIVE MANUFACTURING (Session chair: Tsz Ho Kwok) - Depend Gao , Hongwei Lin, Zibin Li, <i>Free-form multi-level porous model design based on truncated hierarchical B-spline functions</i> - Jiacong Yan , Hongwei Lin, <i>Adaptive slicing of implicit porous structure with topology guarantee</i> - Tianyu Zhang , Guoxin Fang, Yuming Huang, Neelotpal Dutta, Sylvain Lefebvre, Zekai Murat Kilic, Charlie CL Wang, <i>S³Slicer: A general slicing framework for multi-axis 3D printing</i> - Ergun Akleman , 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>	GMP: SPLINES (Session chair: Jiri Kosinka) - Jan Groselj, Hendrik Speleers , <i>Extraction and application of super-smooth cubic B-splines over triangulations</i> - Bert Jüttler, Lisa Groiss, Maodong Pan, <i>Local linear independence of C^s-smooth bivariate tensor-product B-splines of degree p=2s+1 on hierarchical T-meshes</i> (speaker: Felix Scholz) - Roland Maier, Philipp Morgenstern, Thomas Takacs , <i>Adaptive refinement for unstructured T-splines with linear complexity (CAGD)</i> - Esfandiar Nava-Yazdani , Christoph von Tycowicz, Felix Ambellan, Martin Hanik, <i>Sasaki Metric for Spline Models of Manifold-Valued Trajectories</i>
12:45-14:00	Lunch (Chioistro DAD)			
14:00-15:00	Keenan Crane, Monte Carlo Geometry Processing (Session chair: Marcel Campen) (Rooms: 1A+1B)			
15:00-16:00	SMI: AWARDS (Session chair: Joaquim Jorge)	GD: AWARDES (Session chair: Hendrik Speleers)	SPM: SUBDIVISION SURFACES (Session chair: Lucia Romani) - Jorg Peters , Kestutis Karciauskas, <i>Improved Caps for Improved Subdivision Surfaces</i> - Xu Wang , Weiyin Ma, <i>An extended tuned subdivision scheme with optimal convergence for isogeometric analysis</i>	GMP: SURFACE PARAMETRIZATION (Session chair: Daniel Zint) - Fernando de Goes, Jacques-Olivier Lachaud, David Coeurjolly, Colin Weill-Duflos , <i>Joint optimization of distortion and cut location for mesh parameterization using the Ambrosio-Tortorelli functional</i> - Matthias Möller, Kewang Chen, Ye Ji , Cornelis Vuik, <i>On an improved PDE-based elliptic parameterization method for isogeometric analysis using preconditioned Anderson acceleration</i>
16:00-16:30	Coffee Break and Poster Session (Chioistro DAD)			
16:30-18:00	SPM: MESHLESS, MESH AND TOPOLOGY OPTIMIZATION (Session chair: Vadim Shapiro) - Jiangbei Hu , Yu Jiang, Shengfa Wang, Na Lei, Zhongxuan Luo, Ligang Liu, <i>Meshless Optimization of Triply Periodic Minimal Surface-based Two-fluid Heat Exchanger</i> - Amir Mirzendehtdel , Morad Behandish, <i>Co-design Optimization of Moving Parts for Compliance and Collision Avoidance</i> - Shi Chen , Runze Yang, Long Ma, Minfeng Xu, Yuanfeng Zhou, <i>Hybrid Optimization-based Cutting Simulation for Soft Objects</i>	GD: CONTRIBUTED TALKS (Session chair: Francesca Pelosi) - Soo Hyun Kim, Song-Hwa Kwon, Hwan Pyo Moon , <i>High-degree polynomial curve design using the hodograph control polygons</i> - Kai Hormann, Lucia Romani, Alberto Viscardi , <i>New algebraic and geometric characterizations of planar quintic Pythagorean-hodograph curves</i> - Soo Hyun Kim , Hwan Pyo Moon, <i>Interpolation method for quintic MPH over PH curves</i>	GD: CONTRIBUTED TALKS (Session chair: Weiyin Ma) - Severinas Zube , Rimvydas Krasauskas, <i>Quaternionic Bézier parametrizations of bi-degree (2,1)</i> - Krassimira Vlachkova , <i>Testing tensor product Bézier surfaces for coincidence</i> - Ji Li, Thomas Peters, Peter Zaffetti , Kirk Jordan, <i>Approximating Bézier surfaces by their topologically equivalent control net surfaces</i>	GMP: GEOMETRIC OPERATORS FOR CENTERS, SUMS, AND CONTACTS (Session chair: Xiaohu Guo) - Claudio Mancinelli , Enrico Puppo, <i>Computing the Riemannian Center of Mass on Meshes</i> - Haitam Fadila , Gershon Elber, Q Youn Hong, <i>Kernel-based Construction Operators for Boolean Sum and Ruled Geometry</i> - M. Brozos-Vázquez , 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>

DAY 5 - FRIDAY, 7th 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)	SPM GD GMP	Room 0B Room 1A Room 1B	Lunch (Chioistro DAD)	Invited Speaker (Rooms 1A+1B)	SPM GD SCULPT	Room 0B Room 1A Room 1B	Coffee Break (Chioistro DAD)	SPM GD (Session 1) GD (Session 2)	Room 0B Room 1A Room 1B	Closing Session

DETAILED PROGRAM		
ROOM 0B (ground floor)	ROOM 1A (first floor)	ROOM 1B (first floor)
9:00-10:00 Daniele Panozzo , <i>Robust Geometry Processing for Physical Simulation</i> (Session chair: Teseo Schneider) (Room: San Salvatore)		
10:00-10:45 Coffee Break and Poster Session (Chioistro DAD)		
10:45-12:45 SPM: FEATURE-PRESERVING METHODS (Session chair: Jianmin Zheng) - Xinwei Huang , Shuai Li, Shoulong Zhang, Aimin Hao, Hong Qin, <i>Distribution-motivated 3D Style Characterization Based on Latent Feature Decomposition</i> - Cheng Zong , Jinhui Zhao, Pengfei Wang, Shuangmin Chen, Shiqing Xin, Yuanfeng Zhou, Changhe Tu, Wenping Wang, <i>A Region-growing GradNormal Algorithm for Geometrically and Topologically Accurate Mesh Extraction</i> - Philip Azariadis , Alexander Agathos, <i>Optimal Point-to-Point Geodesic Path Generation on Point Clouds</i> - Aizeng Wang , Chuan He, Jianmin Zheng, Gang Zhao, <i>3D Class A Bézier curves with monotone curvature</i>	GD: LEARNING, PROCESSING, AND OPTIMISING SHAPES (Session chair: Hendrik Speleers) - Oliver Barrowclough , <i>Implicit representations: from traditional to learning approaches</i> - Arturs Berzins , Moritz Ibing, Leif Kobbelt, <i>Neural implicit shape editing using boundary sensitivity</i> - Michelangelo Marsala , Angelos Mantzaflaris, Bernard Mourrain, <i>Construction and analysis of a G¹-smooth polynomial family of approximate Catmull-Clark surfaces</i> - Krunal Raval , René R. Hiemstra, Kjetil André Johannessen, Tor Dokken, <i>Adaptive refinement through non-uniform polynomial degree LR B-splines in isogeometric analysis</i>	GMP: LEARNING & UNDERSTANDING SHAPES (Session chair: Weiwei Xu) - Zheng Qin , Kai Xu, Yuxing Peng, Changjian Wang, <i>CasVIGE: Learning Robust Point Cloud Registration with Cascaded Visual-Geometric Encoding</i> - Pierre Alliez, Florent Lafarge, Tong Zhao , Mulin Yu, <i>Sharp Feature Consolidation from Raw 3D Point Clouds via Displacement Learning</i> - Fanzhong Zeng, Yongwei Nie, Bixia Kuang, Chenhao Yao, Juncheng Zeng , Guiqing Li, <i>PSDNet: Part-aware Shape and Pose Disentanglement Neural Network for 3D Human Animating Meshes</i> - Guo-Wei Yang , Wen-Yang Zhou, Hao-Yang Peng, Dun Liang, Tai-Jiang Mu, Shi-Min Hu, <i>Recursive-NeRF: An Efficient and Dynamically Growing NeRF</i> (TVCG)
12:45-14:00 Lunch (Chioistro DAD)		GMP: BEST PAPER AWARDS
14:00-15:00 Hanan Samet , <i>Sorting in space</i> (Session chair: Franca Giannini) (Rooms: 1A+1B)		
15:00-16:00 SPM: BEZIER AWARD Talk (Session chair: Konrad Polthier)	GD: LEARNING, PROCESSING, AND OPTIMISING SHAPES (Session chair: Krunal Raval) - Thanasis Zoumpikas , Alexander Leutgeb, Anna Puig, Maria Salamó, <i>Machining tool identification utilizing temporal 3D point clouds</i> - Pablo González Mazón , Laurent Busé, <i>Effective birational deformation of trilinear volumes</i>	SCULPT Shape Creation Using Layouts, Programs, & Technology
16:00-16:30 Coffee Break and Poster Session (Chioistro DAD)		
16:30-17:30 SPM: METHODS FOR ADDITIVE MANUFACTURING (Session chair: Michael Bartoň) - Jiangbei Hu , Jun Yang, Shengfa Wang, Na Lei, Zhongxuan Luo, <i>Differentiable Channel Design for Enhancing Manufacturability of Enclosed Cavities</i> - Q Youn Hong , Gershon Elber, Myung-Soo Kim, <i>Implicit Functionally Graded Conforming Microstructures</i>	GD: LEARNING, PROCESSING, AND OPTIMISING SHAPES + CONTRIBUTED TALK (Session chair: Krunal Raval) - Andriamahenina Ramanantoanina , <i>Barycentric rational interpolation with applications to curve design</i> - Allen Paul , Tony Shardlow, Neill Campbell, <i>Diffeomorphic statistical shape models with Gaussian processes</i>	GD: CONTRIBUTED TALKS (Session chair: Severinas Zube) - Jorge Caravantes, Gema M. Diaz-Toca, Mario Fioravanti, Laureano Gonzalez-Vega , <i>Interference of conics and quadrics: closed-form solutions</i> - Daoming Liu, Davide Pellis , Yu-Chou Chiang, Florian Rist, Johannes Wallner, Helmut Pottmann, <i>Deployable strip structures</i> - Chiara Romanengo , Silvia Biasotti, Bianca Falcidieno, <i>Extending the Hough transform to recognise space curves in point clouds</i>
17:30-18:00 SPM: BEST PAPER AWARDS (Session chair: Franca Giannini)		
18:00-18:30 Closing Session		