7/26 (Wed)			
7:00-8:00	* Continental Breakfast and Registration		
8:00-8:10	Opening Remarks	(Session Chair: Kenji Shimada)	
	D. C. Gossard Massachusetts Institute of Technology		
8:10-9:00	Keynote Speech	(Session Chair: Myung-Soo Kim)	
	Discrete Differential Geometry for Modeling and Animation <i>P. Schröder</i> California Institute of Technology		
9:00-10:15	Shape Reconstruction	(Session Chair: Myung-Soo Kim)	
	Automatic Extraction of Surface Structures in Digital Shape Reconstruction <i>T. Várady</i> ¹ , <i>MA. Facello</i> ² , <i>Z. Terék</i> ¹ ¹ Geomagic Hungary, Ltd., ² Geomagic, Inc.		
	Ensembles for Normal and Surface Reconstructions <i>M. Yoon</i> ¹ , <i>Y. Lee</i> ¹ , <i>S. Lee</i> ¹ , <i>I. Ivrissimtzis</i> ² , <i>HP. Seidel</i> ³ ¹ POSTECH, ² Coventry University, ³ MPI Informatik		
	Adaptive Fourier-based Surface Reconstruction O. Schall, A. Belyaev, HP. Seidel Max-Planck-Institut für Informatik, Germany		
10:15-10:45	* Coffee and Tea Break		
10:45-12:00	Curves and Surfaces I	(Session Chair: Tamas Várady)	
	Least-Squares Approximation by Pythagorean Hodograph Spline Curves via a <i>M. Aigner, Z. Šír, B. Jüttler</i> (Johannes Kepler University, Austria)	an Evolution Process	
	Geometric Accuracy Analysis for Discrete Surface Approximation J. Dai ¹ , W. Luo ¹ , ST. Yau ² , XD. Gu ³ ¹ Zhejiang University, ² Harvard University, ³ Stony Brook University		
	Quadric Surface Extraction by Variational Shape Approximation <i>DM. Yan, Y. Liu, W. Wang</i> The University of Hong Kong		
12:00-13:30	Lunch Break (On your own please see the STATION SQUARE map fo	r various restaurant options.)	
13:30-15:10	Geometric Processing I	(Session Chair: Wenping Wang)	
	Tracking Point-Curve Critical Distances X. Chen, E. Cohen, RF. Riesenfeld University of Utah		
	Theoretically Based Robust Algorithms for Tracking Intersection Curves of T <i>X. Chen</i> ¹ , <i>RF. Riesenfeld</i> ¹ , <i>E. Cohen</i> ¹ , <i>J. Damon</i> ² ¹ University of Utah, ² University of North Carolina	wo Deforming Parametric Surfaces	
	Subdivision Termination Criteria in Subdivision Multivariate Solvers <i>I. Hanniel, G. Elber</i> Technion, Israel Institute of Technology		
	Towards Unsupervised Segmentation of Semi-Rigid Low-Resolution Molecul Y. Wang ¹ , LJ. Guibas ² ¹ Ohio State University, ² Stanford University	lar Surfaces	
16:15-17:30	Bus Ride from Sheraton Hotel to Carnegie Mellon University (Meet at the front entrance of the hotel at 16:15. The busses will leave the a short sightseeing trip to Oakland, where the Carnegie Mellon Universit	e hotel at 16:30, and take you to y campus is located.)	
17:30-20:15	Poster Session and Reception (Session Chairs: Myung-Soo Kim, Ke	enji Shimada and Soji Yamakawa)	
	01: Robust Three-dimensional Registration of Range Images using a New Genetic Algorithm		
	JW. Branch ¹ , F. Prieto ² , P. Boulanger ⁵ ¹ Universidad Nacional de Colombia-Sede Medellín, ² Universidad Nacional de ³ University of Alberta, Canada	e Colombia-Sede Manizales,	
	02: Geometrical Mesh Improvement Properties of Delaunay Terminal Edge R <i>B. Simpson</i> ¹ , <i>MC. Rivara</i> ² ¹ Univeristy of Waterloo, ² University of Chile	efinement	

Poster Session and Reception (continued)

03: Matrix based Subdivision Depth Computation for Extra-Ordinary Catmull-Clark Subdivision Surface Patches *G. Chen, F.-F. Cheng* University of Kentucky

04: Hierarchically Partitioned Implicit Surfaces For Interpolating Large Point Set Models *D.-T. Chen*¹, *B.-S. Morse*², *B.-C. Lowekamp*¹, *T.-S. Yoo*¹ ¹National Library of Medicine, ²Brigham Young University

05: A New Class of Non-stationary Interpolatory Subdivision Schemes based on Exponential Polynomials *Y.-J. Choi*¹, *Y.-J. Lee*², *J. Yoon*², *B.-G. Lee*³, *Y.-J. Kim*² ¹Seoul University of Venture and Information, ²Ewha Womans University, ³Dongseo University

06: Detection of Closed Sharp Feature Lines in Point Clouds for Reverse Engineering Applications *K. Demarsin*¹, *D. Vanderstraeten*², *T. Volodine*¹, *D. Roose*¹ ¹Katholieke Universiteit Leuven, ²Metris N.V. Belgium

07: Feature Detection Using Curvature Maps and the Min-Cut/Max-Flow Algorithm *T. Gatzke, C. Grimm* Washington University in St. Louis

08: Computation of Normals for Stationary Subdivision Surfaces *H. Kawaharada, K. Sugihara* University of Tokyo

09: Voxelization of Free-form Solids Represented by Catmull-Clark Subdivision Surfaces *S. Lai, F.-F. Cheng* University of Kentucky

10: Interactive Face-Replacements for Modeling Detailed Shapes *E. Landreneau, E. Akleman, J. Keyser* Texas A&M University

11: Straightest Paths on Meshes By Cutting Planes *S. Lee, J. Han, H. Lee* Hongik University, Korea

12: 3D Facial Image Recognition using a Nose Volume and Curvature based Eigenface *Y. Lee*¹, *I. Kim*², *J. Shim*², *D. Marshall*¹ ¹Cardiff University, ²Andong National University, Korea

13: Surface Reconstruction for Efficient Colon Unfolding *S. Lim, H.-J. Lee, B.-S. Shin* Inha University, Korea

14: Spectral Sequencing Based on Graph Distance *R. Liu, H. Zhang, O. van Kaick* Simon Fraser University, Canada

15: An Efficient Implementation of RBF-based Progressive Point-Sampled Geometry *Y.-J. Liu*¹, *K. Tang, J. Ajay*²

¹Tsinghua University, China, ²The Hong Kong University of Science and Technology

16: Segmentation of Scanned Mesh into Analytic Surfaces based on Robust Curvature Estimation and Region Growing *T. Mizoguchi, H. Date, S. Kanai, T. Kishinami*

Hokkaido University

17: Finding Mold-Piece Regions Using Computer Graphics Hardware *A.-K. Priyadarshi*¹, *S.-K. Gupta*² ¹Solidworks Corporation, ²University of Maryland

18: A Method for FEA-based Design of Heterogeneous Objects *K.-H. Shin, J.-K. Lee* Seoul National University of Technology

19: Time-Varying Volume Geometry Compression with 4D Lifting Wavelet Transform *Y. Wang, H. Hamza*University of Central Florida20: A Surface Displaced From a Manifold

S.-H. Yoon Seoul National University

21: Smoothing of Meshes and Point Clouds Using Weighted Geometry-Aware Bases *T. Volodine, D. Vanderstraeten, D. Roose* Katholieke Universiteit Leuven

20:30-21:00 Bus Ride from Carnegie Mellon University to Sheraton Hotel

7/27 (Thr)		
7:00-8:00	* Continental Breakfast and Registration	
8:00-8:10	Announcement	
8:10-9:00	Keynote Speech II(Session Chair: Hiromasa Suzuki)	
	Robustness in Geometric Computations C. M. Hoffmann Purches University	
0.00 10.15	Curries and Surfaces II (Session Chain Uinemass Surviv)	
9:00-10:13	Discouries Developshie Surface Accession of Concert NUDDS Surfaces with Clobal Error Developshie	
	J. Subag, G. Elber Technion Israel Institute of Technology	
	Efficient Piecewise Linear Approximation of Bézier Curves with Improved Sharp Error Bound <i>W. Ma, R. Zhang</i> City University of Hong Kong	
	Approximate μ -Bases of Rational Curves and Surfaces L. Shen ¹ , F. Chen ¹ , B. Jüttler ² , J. Deng ¹ ¹ University of Science and Technology of China, ² Johannes Kepler University, Linz, Austria	
10:15-10:45	* Coffee and Tea Break	
10:45-12:00	Shape Deformation (Session Chair: Gershon Elber)	
	Inverse Adaptation of Hex-dominant Mesh for Large Deformation Finite Element Analysis A. Dheeravongkit, K. Shimada Carnegie Mellon University	
	Preserving Form-Features in Interactive Mesh Deformation <i>H. Masuda</i> ¹ , <i>Y. Yoshioka</i> ¹ , <i>Y. Furukawa</i> ² ¹ The University of Tokyo, ² National Institute of Advanced Industrial Science and Technology	
	Surface Creation and Curve Deformations Between Two Complex Closed Spatial Spline Curves J. Daniels II, E. Cohen University of Utah	
12:00-13:30	Lunch Break (On your own please see the STATION SQUARE map for various restaurant options.)	
13:30-15:10	Shape Description (Session Chair: David Gu)	
	Computing a Family of Skeletons of Volumetric Models for Shape Description <i>T. Ju</i> ¹ , <i>ML. Baker</i> ² , <i>W. Chiu</i> ² ¹ Washington University in St. Louis, ² Baylor College of Medicine	
	Representing Topological Structures Using Cell-Chains DE. Cardoze ¹ , GL. Miller ² , T. Phillips ² ¹ Tanner Research, ² Carnegie Mellon University	
	Constructing Regularity Feature Trees for Solid Models <i>M. Li, FC. Langbein, RR. Martin</i> Cardiff University, Cardiff, UK	
	Insight for Practical Subdivision Modeling with Discrete Gauss-Bonnet Theorem <i>E. Akleman, J. Chen</i> Texas A&M University	
15:10-15:45	Coffee and Tea Break (Note that coffee and tea will be served outside of GRAND STATION I)	
15:45-17:00	Shape Recognition (Session Chair: Ergun Akleman)	
	Shape-Based Retrieval of Articulated 3D Models Using Spectral Embedding V. Jain, H. Zhang Simon Fraser University, Canada	
	Separated Medial Surface Extraction from CT Data of Machine Parts <i>T. Fujimori</i> ¹ , <i>Y. Kobayashi</i> ² , <i>H. Suzuki</i> ¹ ¹ The University of Tokyo, ² CREED Corporation	
	Two-Dimensional Selections for Feature-Based Data Exchange A. Rappoport ¹ , S. Spitz ² , M. Etzion ³ ¹ Hebrew University, ² Proficiency Inc., ³ Proficiency Ltd.	
18:00-21:00	Dinner Cruise and Award Ceremony (Meet at 18:00 at the GATEWAY CLIPPER. Our boat, Liberty Belle, will leave the dock at 18:20.)	
	Note: the events marked with "*" will be held in REFLECTIONS room. All the other event, unless it is specifically mentioned, will be held in GRAND STATION I room.	

7/28 (Fri)	
7:00-8:00	* Continental Breakfast
8:00-8:10	Announcement
8:10-9:00	Subdivision Surfaces (Session Chair: Sara McMains)
	Composite $\sqrt{2}$ Subdivision Surfaces
	<i>G.Li</i> [*] , <i>W.Ma</i> ^{**} ¹ South China University of Technology ² City University of Hong Kong
	Tuned Ternary Quad Subdivision
	T. Ni ¹ , AH. Nasri ²
	¹ University of Florida, ² American University of Beirut
9:00-10:15	Geometric Modeling (Session Chair: Weiyin Ma)
	Geometric Modeling of Nano Structures with Periodic Surfaces Y. Wang University of Central Florida
	Minimal Mean-Curvature-Variation Surfaces and Their Applications in Surface Modeling
	G. Xu^1 , Q. $Zhang^2$
	Determeteric Design Method for Shapes with Assthetic Free Form Surfaces
	<i>T. Oya</i> ¹ , <i>T. Mikami</i> ¹ , <i>T. Kaneko</i> ² , <i>M. Higashi</i> ¹
	¹ Toyota Technological Institute, ² AISHIN Seiki Co., Ltd.
10:15-10:45	* Coffee and Tea Break
10:45-12:00	Curves and Surfaces III (Session Chair: Tao Ju)
	Control Point Removal Algorithm for T-spline Surfaces Y. Wang, J. Zheng Nanyang Technological University
	Shape Representations with Blossoms and Buds LY. Stefanus University of Indonesia, Faculty of Computer Science
	Manifold T-spline Y. He, K. Wang, H. Wang, XD. Gu, H. Qin Stony Brook University
12:00-13:30	Lunch Break (On your own please see the STATION SQUARE map for various restaurant options.)
13:30-14:20	Geometric Processing II (Session Chair: Frank Cheng)
	Simultaneous Precise Solutions to the Visibility Problem of Sculptured Models <i>JK. Seong</i> ¹ , <i>G. Elber</i> ² , <i>E. Cohen</i> ¹ ¹ University of Utah, ² Technion
	Density-Controlled Sampling of Parametric Surfaces Using Adaptive Space-Filling Curves <i>JA. Quinn</i> ¹ , <i>FC. Langbein</i> ¹ , <i>RR. Martin</i> ¹ , <i>G. Elber</i> ² ¹ Cardiff University, ² Technion, Israel
14:20-15:35	Engineering Applications (Session Chair: Soji Yamakawa)
	Verification of Engineering Models Based on Bipartite Graph Matching for Inspection Applications <i>F. Fishkel, A. Fischer, S. Ar</i> Technion, Israel Institute of Technology
	A Step towards Automated Design of Side Actions in Injection Molding of Complex Parts AG. Banerjee, SK. Gupta University of Maryland
	Finding All Undercut-Free Parting Directions for Extrusions X. Chen, S. McMains University of California, Berkeley
15:35-15:45	Closing