

KANG LI

Siemens PLM Software Inc.
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🌐 www.kangli.me



Expertise

CAD/CAM	Additive Manufacturing, Shape/Topology Optimization
Geometric Modeling/Processing	NURBS, Polygon Mesh, Point Cloud, Images
Artificial Intelligence	Statistical Shape Model, Machine Learning, Computer Vision
Numerical Methods	Finite/Boundary Element Method, Isogeometric Analysis

Experience

Siemens PLM Software Inc. - Software Engineer @ Ames, IA	2015.07~Present
○ Maintain Direct Model visualization toolkit and industry standard JT file format	
Siemens Corporate Technology - Research Intern @ Princeton, NJ	2014.06~2014.08
○ Developed algorithms for NX 3D printing module and filed 1 invention disclosure	
Illinois Institute of Technology - Research Assistant @ Chicago, IL	2009.01~2015.05
○ Published 5 journal and 4 conference papers, and won 4 best paper awards	

Education

Illinois Institute of Technology Ph.D. in Mechanical Engineering	2009.01~2015.05 Chicago, IL
Tongji University B.S. & M.S. in Mechanical Engineering	2001.09~2008.03 Shanghai, China

Skills

Programming	C/C++, MATLAB, FORTRAN; OpenGL, NX Open, Parasolid Visual Studio, Xcode; LaTeX, HTML/CSS
Software	NX, Teamcenter Visualization, Pro/E, Solidworks, Rhino3D, AutoCAD, Mimics; Abaqus, ANSYS, COMSOL, Hypermesh; Geomagic; Photoshop, Illustrator

Awards

Prakash Krishnaswami CAPPD Best Paper Award ASME IDETC/CIE Conferences	2014.08, 2012.08, 2010.08 Buffalo, Chicago, Montreal
Best Paper Award, First Place SIAM/ACM GD/SPM Joint Conference	2011.10 Orlando, FL

Patents & Publications

- ▷ "Systems and Methods for Lightweight Precise 3D Visual Format" *US. Patent Published*, 2019.11
- ▷ "Build Orientations for Additive Manufacturing" *US. Patent Published*, 2016.03
- ◇ "Direct Diffeomorphic Reparameterization for Correspondence..." *Computer-Aided Design*, 2015
- ◇ "Covariance Matrix of A Shape Population: A Tale on Spline Setting" *Computers & Graphics*, 2015
- ◇ "Direct Geometry Processing for Tele-Fabrication." *J. Computing & Information Science in Engr.*, 2012
- ◇ "Isogeometric Analysis and Shape Optimization via Boundary Integral" *Computer-Aided Design*, 2011
- ◇ "Topologically Enhanced Slicing of MLS Surfaces" *J. Computing & Information Science in Engr.*, 2011