Hui Wang

Visual Computing Center (VCC), King Abdullah University of Science and Technology (KAUST), Jeddah, Saudi Arabia \$\(\cup(+966) 0545654532 \rightarrow \in \text{hui.wang.1.@kaust.edu.sa / hwangchn@outlook.com | \$\mathrew \text{www.huiwang.me/}\$

Research Interest

Architectural geometry, geometry processing, computational design, CAD, CAGD, discrete differential geometry, etc.

Experience / Education _

Postdoc (https://cemse.kaust.edu.sa/vcc/people/person/hui-wang)

Prinpipal Investigator (PI): Prof. Helmut Pottmann

Dalian University of Technology (DUT)

PhD in School of Mathematical Sciences

Supervisior: Prof. Chungang Zhu

TU Wien

Joint PhD in Institute of Discrete Mathematics and Geometry

Supervisior: Prof. Helmut Pottmann

Dalian University of Technology (DUT)

MS in School of Mathematical Sciences

Supervisior: Prof. Zhonghua Hou

Jilin Normal University

BS in Mathematics and Applied Mathematics

Publication _

O Principal Symmetric Meshes

ACM Trans. Graphics, SIGGRAPH, 2020. (计算机图形学顶刊, CCF A 类)

Hui Wang*, Davide Pellis*, Martin Kilian, Florian Rist, Helmut Pottmann, Christian Müller (* 共同一作).

O Discrete Geodesic Parallel Coordinates

ACM Trans. Graphics, SIGGRAPH ASIA, 2019. (计算机图形学顶刊, CCF A 类)

Hui Wang, Davide Pellis, Florian Rist, Helmut Pottmann, Christian Müller.

Characteristic parameterizations of surfaces with a constant ratio of principal curvatures

Computer Aided Geometric Design, 2022. (计算机辅助设计顶刊, CCF B 类)

Hui Wang, Helmut Pottmann.

O Designing asymptotic geodesic hybrid gridshells

submitted to Computer-Aided Design, 2022. (计算机辅助设计顶刊, CCF B 类)

Hui Wang*, Eike Schling*, Sebastian Hoyer, Helmut Pottmann (* 共同一作).

O The Design of Bézier Surface Through Quintic Bézier Asymptotic Quadrilateral

Journal of Computational Mathematics (JCM). (中科院 2 区)

Hui Wang, Chungang Zhu, Caiyun Li.

O Construction of B-spline surface from Cubic B-spline Asymptotic Quadrilateral

Journal of Advanced Mechanical Design, Systems, and Manufacturing (JSME). (中科院 4区)

Hui Wang, Chungang Zhu, Caiyun Li.

O Construction of Rational Bézier Surface Interpolating Asymptotic Quadrilateral

Journal of Computer-Aided Design and Computer Graphics(计算机辅助设计与图形学学报). (CCF(中文) A 类)

Hui Wang, Chungang Zhu, Caiyun Li.

Jeddah, Saudi Arabia

Mar. 2020 - Mar. 2023

Dalian,China

Sep. 2015 - Mar. 2020

Vienna, Austria

Sep. 2017 - Oct. 2019

Dalian,China

Sep. 2013 - July 2015

Siping,China

Sep. 2009 - July 2013

2019

2022

2017

2017

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Journal of Graphics(顧李学現)、(CF(中文)で裁) 12056 Hui Wang, Chungang Zhu, Casiyun Li. Oldentification of Planar Settle Pythagorean-Hodograph Curves Journal of Mathematical Research with Applications(数学研究及庭用)、(美文,核心) 2016 Hui Wang, Chungang Phu, Caiyun I I Collegia Jiang, Hui Wang, Chungang Phu, Caiyun I I Collegia Jiang, Hui Wang, Chungang Mu, Curz (持續相應形等項刊, CEF A 类) 2021 Caigui Jiang, Hui Wang, Nictor Cebolics inxo, Felix Dellinger, Florian Rist, Johannes Wallner, Helmut Pottmann. Architectural grid structures with planar continuous beams submitted to Computer, Aléed Design, 2022. (计算相應股外預測, CEF B 类) 2022 Cheng Wang, Caigui Jiang, Hui Wang, Xinsier Tellier, Helmut Pottmann. Shaper morphing Mechanical Metamaterials Computer Aléed Design, 2021. (计算相應股外預測, CEF B 类) 2022 Caigui Jiang, Florian Rist, Hui Wang, Johannes Wallner, Helmut Pottmann. Architectural Freeform Surfaces Designed for Cost-effective Paneling Through Mold Re-use Advances in Architectural Geometry (AAG), 2020. Davide Pells, Martin Kilian, Hui Wang, Lonians Waller, Helmut Pottmann. Posign and Construction of Curved Support Structures with Repetitive Parameters Advances in Architectural Geometry (AAG), 2028. Pike Schling, Martin Kilian, Hui Wang, Loniansk Chikore, Helmut Pottmann. On Nelicial surfaces with a constant ratio of principal curvatures and Account Research of Cost-effective Parameters Advances in Architectural Support Structures with Spherical Vertex Stars Advances in Architectural Breeders with Spherical Vertex Stars Advances in Architectural Spheroscopic Geodesic Hybrid Gridshells Presenter Curved Support Structures and Meshes with Spherical Vertex Stars Advances in Architectural Spheroscopic Geodesic Hybrid Gridshells Presenter Curves and Surfaces 2022 Accochon, Fonce Designing Asymptotic Geodesic Hybrid Gridshells Presenter (in Chinese) Also, Ko	$\circ \ G^2$ Hermite Interpolation by Pythagorean Hodograph of Degree Six	
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O Shape-morphing Mechanical Metamaterials Computer-Aided Design, 2021. (计算規請助設计開刊, CCF 8 美) 2021 Caigui Jiang, Florian Rist, Hui Wang, Johannes Wallner, Helmut Pottmann. O Architectural Freeform Surfaces Designed for Cost-effective Paneling Through Mold Re-use Advances in Architectural Geometry (AAG), 2020. 2020 Davide Pellis, Martin Kilian, Hui Wang, Caigui Jiang, Christian Müller, Helmut Pottmann. O Design and Construction of Curved Support Structures with Repetitive Parameters Advances in Architectural Geometry (AAG), 2018. 2018 Eike Schling, Martin Kilian, Hui Wang, Jonas Schikore, Helmut Pottmann. O On helical surfaces with a constant ratio of principal curvatures arkiv, 2022. 2022 Yang Liu, Olimjoni Pirahmad, Hui Wang, Dominik L. Michels, Helmut Pottmann. O Curved Support Structures and Meshes with Spherical Vertex Stars ACM Trans. Graphics, SiGGRAPH Poster, 2018. (计算机图形学原刊 (展程), CCFA 类) 2018 Martin Kilian, Hui Wang, Eike Schling, Jonas Schikore, Helmut Pottmann. Selected Talks O Curves and Surfaces 2022 Arcachon, France Designing Asymptotic Geodesic Hybrid Gridshells Jon. 20-24, 2022 Presenter O SiGGRAPH ASIA 2019 Brisbane, Austrilio Discrete Geodesic Parallel Coordinates Nov. 17-20, 2019 Presenter O Computer Mathematics (CM) 2016 Sheazher, Chino Construction of Bezier Surface by Bezier Asymptotic Quadrilateral Presenter (in Chinese) O Asian Conference on Design and Digital Engineering 2016 Construction of Bespline Surface from Cubic B-spline Asymptotic Quadrilateral Presenter O Collaboration of B-spline Surface from Cubic B-spline Asymptotic Quadrilateral Presenter O Collaboration of B-spline Surface from Cubic B-spline Asymptotic Quadrilateral Presenter O Collaboration of B-spline Surface from Cubic B-spline Asymptotic Quadrilateral Presenter O Collaboration of B-spline Surface from Cubic B-spline Asymptotic Quadrilateral Presenter O Collaboration of B-spline Surface from Cubic B-spline Asymptotic Quadrilateral Presenter		2022
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Skills _____

- O **Programming**: Python, Matlab, Maple, Rhino script
- O **Software Tools**: Rhinoceros, Blender, Meshlab, GIMP. Rendering: V-ray, Keyshot
- O **Language**: Chinese (native), English, German (beginner)

Reference _____

- O **Prof. Helmut Pottmann**: VCC, KAUST; Applied geometry, TU Wien.
- O Ass.Prof.Christian Müller, Dr. Martin Kilian: Applied geometry, TU Wien.
- O **Prof. Chungang Zhu**, **Prof. Zhonghua Hou**: School of Mathematical Sciences, DUT.