

Hui Wang

School of Mathematical Sciences, Dalian University of Technology (DUT), Dalian, China

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Research Interest

My research interests mainly lie in architectural geometry, computational geometry, differential geometry, etc.

Education

TU Wien

Joint PhD (supported by CSC) in Institute of Discrete Mathematics and Geometry

Supervisor: Prof. Helmut Pottmann

Vienna, Austria

Sep. 2017 - Oct. 2019

Dalian University of Technology

PhD in School of Mathematical Sciences

Supervisor: Prof. Chungang Zhu

Dalian, China

Sep. 2015 - PRESENT

Dalian University of Technology

MS in School of Mathematical Sciences

Supervisor: Prof. Zhonghua Hou

Dalian, China

Sep. 2013 - Oct. 2015

Jilin Normal University

BS in Mathematics and Applied Mathematics

Siping, China

Sep. 2009 - Oct. 2013

Publication

○ Principal Symmetric Meshes

Accepted by ACM Trans. Graphics, SIGGRAPH, 2020.

2020

Davide Pellis*, **Hui Wang***, Martin Kilian, Florian Rist, Helmut Pottmann, Christian Müller (*joint first author).

○ Discrete Geodesic Parallel Coordinates

ACM Trans. Graphics, SIGGRAPH ASIA, 2019.

2019

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

○ 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, and Helmut Pottmann.

○ Curved Support Structures and Meshes with Spherical Vertex Stars

ACM Trans. Graphics, SIGGRAPH Poster, 2018.

2018

Martin Kilian, **Hui Wang**, Eike Schling, Jonas Schikore, and Helmut Pottmann.

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

Journal of Advanced Mechanical Design, Systems, and Manufacturing (JSME).

2017

Hui Wang, Chungang Zhu, and Caiyun Li.

○ The Design of Bézier Surface Through Quintic Bézier Asymptotic Quadrilateral

Journal of Computational Mathematics (JCM).

2017

Hui Wang, Chungang Zhu, and Caiyun Li.

○ Construction of Rational Bézier Surface Interpolating Asymptotic Quadrilateral

Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics.

2017

Hui Wang, Chungang Zhu, and Caiyun Li.

○ Identification of Planar Sextic Pythagorean-Hodograph Curves

Journal of Mathematical Research with Applications.

2016

Hui Wang, Chungang Zhu, and Caiyun Li.

○ G^2 Hermite Interpolation by Pythagorean Hodograph of Degree Six

Journal of Graphics.

2016

Hui Wang, Chungang Zhu, and Caiyun Li.

Conference and Selected Talks

- **SIGGRAPH ASIA 2019**
Discrete Geodesic Parallel Coordinates
Presenter
[Brisbane, Australia](#)
Nov.17-20 2019
- **Fifth Symposium on Geometry and Computational Design(GCD) 2018**
TU Wien
Attendee
[Vienna, Austria](#)
Oct.25, 2018
- **Advances in Architectural Geometry (AAG) 2018**
Chalmers University of Technology
Attendee
[Gothenburg, Sweden](#)
Sep.22-25, 2018
- **Fourth Symposium on Geometry and Computational Design(GCD) 2017**
TU Wien
Attendee
[Vienna, Austria](#)
Nov.17, 2017
- **Computer Mathematics (CM) 2016**
Construction of Bezier Surface by Bezier Asymptotic Quadrilateral
Presenter (in Chinese)
[Shenzhen, China](#)
Nov.11-13, 2016
- **Asian Conference on Design and Digital Engineering 2016**
Construction of B-spline Surface from Cubic B-spline Asymptotic Quadrilateral
Presenter
[Jeju, Korea](#)
Oct.25-28, 2016
- **International Conference on Information and Computational Science (ICICS) 2016**
Dalian University of Technology
Attendee
[Dalian, China](#)
Aug.2-6, 2016
- **CSIAM Geometric Design and Computing (GDC) 2016**
University of Science and Technology of China
Attendee
[Hefei, China](#)
July 16-18, 2016
- **CSIAM Geometric Design and Computing (GDC) 2015**
 G^2 Hermite Interpolation by Pythagorean Hodograph of Degree Six
Presenter (in Chinese)
[Hangzhou, China](#)
Aug.22-24, 2015

Skills

- **Programming:** Python, Matlab, Maple
- **Software Tools:** Rhinoceros, Blender, GIMP, Meshlab
- **Language:** Chinese (native), English, German (beginner)

Reference

- **Prof. Helmut Pottmann:** Full Professor, KAUST and TU Wien, Austria.
- **Ass.Prof. Christian Müller:** Assistant Professor, TU Wien, Austria.
- **Dr. Martin Kilian:** Assistant, TU Wien, Austria.
- **Dr. Davide Pellis:** Assistant, TU Wien, Austria.
- **Prof. Chungang Zhu:** Full Professor, DUT, China.
- **Prof. Zhonghua Hou:** Full Professor, DUT, China.
- **Ass.Prof. Caiyun Li:** Associate Professor, DUT, China.