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   *Vienna, Austria*
Joint PhD (supported by CSC) in Institute of Discrete Mathematics and Geometry   *Sep. 2017 - Oct. 2019*
Supervisior: Prof. Helmut Pottmann

Dalian University of Technology   *Dalian,China*
PhD in School of Mathematical Sciences   *Sep. 2015 - PRESENT*
Supervisior: Prof. Chungang Zhu

Dalian University of Technology   *Dalian,China*
MS in School of Mathematical Sciences   *Sep. 2013 - Oct. 2015*
Supervisior: Prof. Zhonghua Hou

Jilin Normal University   *Siping,China*
BS in Mathematics and Applied Mathematics   *Sep. 2009 - Oct. 2013*

Publication

○ **Architectural Freeform Surfaces for Cost-effective Paneling Through Mold Re-use**
  Submitted to Advances in Architectural Geometry (AAG 2020).   *2020*
  Davide Pellis, **Hui Wang**, Martin Kilian, Caigui Jiang, Christian Müller, Helmut Pottmann.

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

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.