

Shihao Wu

Work

- 2018 – Now Postdoc, *ETH Zürich*.
– Research in Computer Graphics, Geometry Processing and Machine Learning

Education

- 2014 – 2018 PhD. in Computer Science, *University of Bern*.
2011 – 2014 MSc. in Computer Science, *South China University of Technology*.
2007 – 2011 BSc. in Computer Science, *South China Normal University*.

Selected Publication

- 2019 Glauser, O., **S. Wu**, D. Panozzo, O. Hilliges, and O. Sorkine-Hornung. “Interactive Hand Pose Estimation using a Stretch-Sensing Soft Glove”. In: *ACM Trans. on Graphics (Proc. of SIGGRAPH)*.
Wang, Y., S. Felice, **S. Wu**, C. Öztireli, and O. Sorkine-Hornung. “Differentiable Surface Splatting for Point-based Geometry Processing”. In: *ACM Trans. on Graphics (Proc. of SIGGRAPH ASIA)*.
Wang, Y., **S. Wu**, H. Huang, D. Cohen-Or, and O. Sorkine-Hornung. “Patch-base Progressive 3D Point Set Upsampling”. In: *Proc. IEEE Conf. on Comp. Vis. and Pat. Rec. (CVPR)*.
- 2018 **S. Wu**, H. Huang, T. Portenier, M. Sela, D. Cohen-Or, R. Kimmel, and M. Zwicker. “Specular-to-Diffuse Translation for Multi-View Reconstruction”. In: *Proc. IEEE Euro. Conf. on Comp. Vis. (ECCV)*.
Zheng, Y., G. Li, X. Xu, **S. Wu**, and Y. Nie. “Rolling Normal Filter for Point Cloud”. In: *Proc. Int. Conf. on Geometric Modeling and Processing*.
- 2017 Lu, X., **S. Wu**, H. Chen, S. Yeung, W. Chen, and M. Zwicker. “GPF: GMM-inspired Feature-preserving Point Set Filtering”. In: *IEEE Trans. Vis. & Comp. Graphics (TVCG)*.
S. Wu, P. Bertholet, H. Huang, D. Cohen-Or, M. Gong, and M. Zwicker. “Structure-aware Data Consolidation”. In: *IEEE Trans. Pat. Ana. & Mach. Int. (TPAMI)*.
- 2016 Huang, H., **S. Wu**, B. Chen, and L. Nan. U.S. pat. 9390552.
Mei, J., L. Zhang, **S. Wu**, Z. Wang, and L. Zhang. “3D Tree Modeling from Incomplete Point Clouds via Optimization and L1-MST”. In: *Int. Journal of Geographical Information Science*.
- 2015 **S. Wu**, H. Huang, M. Gong, M. Zwicker, and D. Cohen-Or. “Deep Points Consolidation”. In: *ACM Trans. on Graphics (Proc. of SIGGRAPH ASIA)*.
- 2014 **S. Wu**, W. Sun, P. Long, H. Huang, D. Cohen-Or, M. Gong, O. Deussen, and B. Chen. “Quality-driven Poisson-guided Autoscanning”. In: *ACM Trans. on Graphics (Proc. of SIGGRAPH ASIA)*.
- 2013 Huang, H., **S. Wu**, D. Cohen-Or, M. Gong, H. Zhang, G. Li, and B. Chen. “L1-Medial Skeleton of Point Cloud”. In: *ACM Trans. on Graphics (Proc. of SIGGRAPH)*.
Huang, H., **S. Wu**, M. Gong, D. Cohen-Or, U. Ascher, and H. Zhang. “Edge-Aware Point Set Resampling”. In: *ACM Trans. on Graphics (TOG)*.

Selected Research & Development

- 2015 Visiting Tel Aviv University, *3D object retrieval for Intel RealScan*.
2014 Google Summer of Code, *Point set processing for CGAL*.