

CHENG LIN (林钺)

(+852) 65561316 ◊ chlin@connect.hku.hk ◊ <https://clinplayer.github.io>

EDUCATION

The University of Hong Kong (HKU) 2016 - 2021
Ph.D. in Computer Science
Supervisor: Prof. Wenping Wang (IEEE Fellow, ACM Fellow)
Research Interests: Geometric Modeling, Shape Analysis, 3D Vision, Computer Graphics

Shandong University (SDU) 2012 - 2016
B.E. in Software Engineering
GPA: 91.91/100 (4.66/5.0) Ranking: 1/299

HONORS (SELECTED)

Postgraduate Scholarship [HKU] 2016 - 2020
Computer Science Scholarship [HKU] 2016, 2018
Google Excellence Scholarship [Google] Aug 2015
President's Scholarship [the highest honor in SDU] (Top 0.1%) Nov 2015
Baosteel Scholarship [Baosteel] Oct 2015
Top 100 Outstanding CS Students in China [China Computer Federation (CCF)] Sep 2015
National Scholarship of China [Ministry of Education, China] (Top 1%) 2013, 2014, 2015

PUBLICATIONS

Weikai Chen, **Cheng Lin**, Weiyang Li, Bo Yang, *3PSDF: Three-Pole Signed Distance Function for Learning Surfaces with Arbitrary Topologies*, CVPR 2022

Zhiyang Dou, **Cheng Lin**, Rui Xu, Lei Yang, Shiqing Xin, Taku Komura, Wenping Wang, *Coverage Axis: Inner Point Selection for 3D Shape Skeletonization*, EuroGraphics(EG) 2022

Xiaoxiao Long, **Cheng Lin**, Lingjie Liu, Wei Li, Christian Theobalt, Ruigang Yang, Wenping Wang, *Adaptive Surface Normal Constraint for Depth Estimation*, ICCV 2021

Cheng Lin, Changjian Li, Yuan Liu, Nenglu Chen, Yi-King Choi, Wenping Wang, *Point2Skeleton: Learning Skeletal Representations From Point Clouds*, CVPR 2021 (Oral Presentation)

Yuan Liu, Lingjie Liu, **Cheng Lin**, Zhen Dong, Wenping Wang, *Learnable Motion Coherence for Correspondence Pruning*, CVPR 2021

Risheng Huang, Li Shen, Xuan Wang, **Cheng Lin**, Hao-Zhi Huang, *Adaptive Compact Attention For Few-shot Video-to-video Translation*, Arxiv 2020, Under Review

Cheng Lin, Tingxiang Fan, Wenping Wang, Matthias Nießner, *Modeling 3D Shapes by Reinforcement Learning*, ECCV 2020

Cheng Lin, Lingjie Liu, Changjian Li, Leif Kobbelt, Bin Wang, Shiqing Xin, Wenping Wang, *SEG-MAT: 3D Shape Segmentation Using Meidal Axis Transform*, IEEE TVCG 2020

Cheng Lin, Changjian Li, Wenping Wang, *Floorplan-Jigsaw: Jointly Estimating Scene Layout and Aligning Partial Scans*, ICCV 2019

Lingjie Liu, Duygu Ceylan, **Cheng Lin**, Wenping Wang, Niloy Mitra, *Image-based reconstruction of wire art*, SIGGRAPH 2017 (TOG)

Wei Gai, Chenglei Yang, Yulong Bian, Chia Shen, Xiangxu Meng, Lu Wang, Juan Liu, Mingda Dong, Chengjie Niu, **Cheng Lin**, *Supporting easy physical-to-virtual creation of mobile vr maze games: a new genre*, CHI 2017

Cheng Lin, Xiaowen Sun, Chenglei Yue, Chenglei Yang, Wei Gai, Pu Qin, Juan Liu, Xiangxu Meng, *A novel workbench for collaboratively constructing 3D virtual environment*, IIKI 2017 (Procedia Computer Science)

EXPERIENCE

Digital Content Technology Center, Tencent Games *2021 - Present*

- Senior Researcher
- 3D shape modeling for game product

Technical University of Munich (TUM) *2019 - 2020*

- Visiting Researcher **Advisor:** Prof. Matthias Nießner
- 3D scene understanding, 3D shape modeling, deep reinforcement learning (DRL)

Research Center of Digital Media Technology, Ministry of Education *2014 - 2016*

- Research Assistant **Advisor:** Prof. Chenglei Yang
- Human computer interaction (HCI), ubiquitous computing, VR/AR

SKILLS

Programming Languages Python, Java, C/C++, MATLAB, C#

Tools and Packages Pytorch, OpenCV, CGAL, OpenGL, OpenNI

PATENTS

A mixed-reality game system based on ubiquitous computing
- China Invention Patent (Granted) CN105373224B *Jun 2016*

A collaborative scene modeling system based on wide-angle folding touch screens
- China Invention Patent (Granted) CN106406430B *Mar 2016*

A collaborative scene modeling system based on mobile terminals and holographic display
- China Invention Patent (Granted) CN104794752B *Apr 2016*

TEACHING

Teaching Assistant of Undergraduate Courses:

COMP3359-HKU Artificial Intelligence Applications [Section 2A, 2019]

COMP2121-HKU Discrete mathematics [Section 1B, 2018]

Teaching Assistant of Graduate Courses:

COMP8504-HKU Geometric Modeling and Computing [Section 2A, 2019]

COMP7507-HKU Visualization and Visual Analytics [Section 1A, 2016, 2017]

EXTRACURRICULAR ACTIVITIES

Tenor of the Schola Cantorum, Shunhing College, HKU *Sep 2016 - Feb 2018*

Leader of the Music Association, School of Software, SDU *Sep 2014- June 2015*

Leader of the Art and Literature Department, Student Union, SDU *Sep 2013 - Jun 2014*