

Congcong Jin

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Education

- University of California, Irvine** **09/2019 – 12/2020 (Expected)**
M.S. in Computer Science, Donald Bren School of Information and Computer Sciences
- Rochester Institute of Technology** **09/2018 – 11/2018**
Visiting Student, B. Thomas Golisano College of Computing & Information Sciences
- Xi'an Jiaotong University** **09/2016 – 06/2019**
M.S. in Software Engineering, School of Software

Technical Skills

- **Programming Languages:** Java, Python, C/C++, MATLAB, JavaScript, HTML
- **Operating Systems:** Mac, Linux and Windows

Project Experiences

- Customer Relationship Management System** **04/2014**
 - Developed a Customer Relationship Management system to manage information of both users and transactions
 - Applied techniques like Apache Tomcat, Servlet, JavaScript, HTML and MySQL
- Library Information Management System** **12/2013**
 - Developed an information system to manage book information
 - Applied techniques like MySQL, JavaScript, HTML and et al.

Research Experiences

- Few-shot Human Action Prediction** **09/2018 – 11/2018**
 - Introduced few-shot learning into action prediction to improve the network's generalization
 - Proposed relationship networks to construct a confidence matrix for accurate classification
 - Designed a non-decreasing margin based triplet loss to enforce the model to make early predictions
- Multi-view Point Cloud Registration** **05/2017 – 03/2018**
 - Proposed a matrix completion method to reduce the sparsity of the reconstructed matrix
 - Designed a probability function for relative motions to denotes their reliabilities
 - Applied the proposed matrix completion and probability function into multi-view registration based on L_1 norm
- Pair-wise Point Cloud Registration** **09/2016 - 04/2017**
 - Introduced hard assignment into registration to exclude outliers for registration
 - Designed a probability function to represent the reliabilities of established correspondences
 - Proposed an Iterative Closest Point variant to acquire the rigid transformation between two point clouds

Internship

- Action Recognition and Pose Estimation** **02/2019 – 05/2019**
CVTE Co., Ltd
 - Collected and rinsed classroom data and then cut each student in the video out for classification
 - Applied optical flow theory to differentiate the transition between different poses
 - Improved existing networks and trained them using the collected data for pose recognition
 - Introduced people detection and tracking theories to analyze each student's pose

Publications

- **Congcong Jin**, Jihua Zhu, Yaochen Li and et al. Multi-view Registration Based on Weighted Low Rank and Sparse Matrix Decomposition of Motions. *IET Computer Vision*, 13 (2019): 376–384.
- Jihua Zhu, **Congcong Jin**, Zutao Jiang and et al. Robust Point Cloud Registration Based on Both Hard and Soft Assignments. *Optics & Laser Technology*, 110: 202–208.
- Yiqiong Zhou, Siyu Xu, **Congcong Jin**, Ziyi Guo. Multiple Point Sets Registration Based on Expectation Maximization Algorithm. *Computers and Electrical Engineering*, 70 (2018): 1–11.
- Zutao Jiang, Jihua Zhu, **Congcong Jin**, Siyu Xu and et al. Simultaneously Merging Multi-robot Grid Maps at Different Resolutions. *Multimedia Tools and Applications*, 2019: 1–20.
- Jihua Zhu, Di Wang, Xiuxiu Bai, Huimin Lu, **Congcong Jin** and Zhongyu Li. Registration of Point Clouds Based on the Ratio of Bidirectional Distances, *International Conference on 3D Vision*, pp. 102–107.

Awards

- Scholar Exchange Fellowship, *Xi'an Jiaotong University (1/600+)* 09/2018 – 11/2018
- Shenzhen Stock Exchange Scholarship, *Xi'an Jiaotong University (1/216)* 10/2018
- Special Scholarship, *Xi'an Jiaotong University* 10/2018
- Second Prize Scholarship, *Xi'an Jiaotong University* 10/2017
- First Prize Scholarship, *Xi'an Jiaotong University* 10/2016
- Yueqi Sun Outstanding Student Award, *Shandong University of Science & Technology* 10/2014
- Second Prize of National English Contest for College Students, *China* 05/2014
- National Encouragement Scholarship (Twice), *China* 2012 – 2013