

Junwu Weng

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Homepage	http://calcifer.me		Nanyang Technological University

Research Interest

Pattern Mining, Metric Learning and Deep Learning, with their applications to Human Action and Gesture Analysis as well as Vision-based Human Computer Interaction

Education

Ph.D. Candidate in Electronic and Information Engineering Nanyang Technological University Advisor: <i>Prof. Junsong Yuan, Prof. Xudong Jiang</i>	Aug 2015 - Present Singapore
M.Phil. in Signal and Information Processing South China University of Technology Advisor: <i>Prof. Xiangmin Xu</i>	Sep 2012 - July 2015 Guangzhou, China
B.Eng. in Information Engineering - Talented Student Program South China University of Technology	Sep 2008 - July 2012 Guangzhou, China

Publications

- **Junwu Weng**, Mengyuan Liu, Xudong Jiang, Junsong Yuan: *Deformable Pose Traversal Convolution for 3D Action and Gesture Recognition*. in European Conference on Computer Vision (**ECCV'18**), 2018
- **Junwu Weng**, Chaoqun Weng, Junsong Yuan, Zicheng Liu: *Discriminative Spatio-Temporal Pattern Discovery for 3D Action Recognition*. in IEEE Transactions on Circuits and Systems for Video Technology (**T-CSVT**), 2018
- Liuhao Ge, Yujun Cai, **Junwu Weng**, Junsong Yuan: *Hand PointNet: 3D Hand Pose Estimation using Point Sets*. in Proc. IEEE Conf. on Computer Vision and Pattern Recognition (**CVPR'18**), 2018 [**Spotlight**]
- **Junwu Weng**, Chaoqun Weng, Junsong Yuan: *Spatio-Temporal Naïve-Bayes Nearest Neighbor for Skeleton-Based Action Recognition*. in Proc. IEEE Conf. on Computer Vision and Pattern Recognition (**CVPR'17**), 2017

Experience

Visiting Fellow at Internet Media Group <i>Microsoft Research Asia, Beijing, China</i>	Jun 2018 - Present
Visiting Ph.D. Student at Institute for Media Innovation <i>Nanyang Technological University, Singapore</i>	May 2017 - Present
Ph.D. Student at Media Technology Laboratory of EEE <i>Nanyang Technological University, Singapore</i>	Aug 2015 - May 2017
Hand Gesture Based HCI System by Single-Camera (Sub-Project Leader) <i>NG-HCI Lab, South China University of Technology, Guangzhou, China</i>	Aug 2012 - Jan 2014
Pre-Processing of Video Images for Hand Control System (Project Leader) <i>NG-HCI Lab, South China University of Technology, Guangzhou, China</i>	Oct 2011 - June 2012

Honor & Award

- Ph.D. Research Scholarship, Nanyang Technological University, Singapore 2015 - 2019
- National Graduate Student Scholarship (*top 3%*), Ministry of Education, China 2013 - 2014
- Second Prize in National Post-Graduate Mathematical Contest in Modeling, CDGDC, China Oct 2013
- First Prize Graduate Student Scholarship, South China Univ. of Tech., China 2012 - 2013

Services

- Teaching Assistant of IM1002 Analog Electronics (*Lab*) 2018 Spring
- Teaching Assistant of IM2073 Mobile Programming (*Lab*) 2018 Spring
- Teaching Assistant of Foundations of Data Science and Machine Learning in Python (*Tutorial*) 2017 Fall
- Organizing Committee of 4th International Teochew Doctoral Forum Nov 2016
- Reviewer of IEEE Transaction on Image Processing (**T-IP**)
- Reviewer of IEEE Transaction on Circuit System and Video Technology (**T-CSVT**)
- Reviewer of Journal of Visual Communication and Image Representation (**JVCI**)

Skills

Programming C/C++, Matlab, Python (PyTorch), \LaTeX , HTML/CSS

Language Chinese Mandarin (native), English (fluent)