Fuwen TAN

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Summary

I am a Ph.D. student in the Computer Science Department of University of Virginia (U.Va.), working with Dr. Vicente Ordóñez Román. My areas of specialization are computer vision, graphics, and NLP. I am especially interested in learning compositional representations of image and language, and their applications to visual recognition, retrieval, and synthesis. Before joining U.Va., I was a Research Associate at the BeingThere center of Nanyang Technological University, working on Computer Graphics and 3D Telepresence.

Education

University of Virginia — Charlottesville, United States
Ph.D. Program in Computer Science — Aug.2015 - Present
Advisor: Vicente Ordóñez Román

Zhejiang University — Hangzhou, China
M.S.in Mathematics — Sep.2010 - Jun.2012
Advisor: Ligang Liu

Sun Yat-sen University — Guangzhou, China
B.S. in Mathematics — Sep.2006 - Jun.2010

Research

Text2Scene: Generating Abstract Scenes from Textual Descriptions
Fuwen Tan, Song Feng, Vicente Ordonez
arXiv preprint, 2018.

Where and Who? Automatic Semantic-Aware Person Composition
Fuwen Tan, Crispin Bernier, Benjamin Cohen, Vicente Ordonez, Connelly Barnes
IEEE Winter Conference on Applications of Computer Vision (WACV), 2018

FaceCollage: A Rapidly Deployable System for Real-time Head Reconstruction for On-The-Go 3D Telepresence
Fuwen Tan, Chi-Wing Fu, Teng Deng, Jianfei Cai, Tat Jen Cham
ACM Multimedia (ACM MM, full paper), 2017

High-Quality Kinect Depth Filtering For Real-time 3D Telepresence
Mengyao Zhao, **Fuwen Tan**, Chi-Wing Fu, Chi-Keung Tang, Jianfei Cai, Tat Jen Cham
IEEE International Conference on Multimedia and Expo (ICME), 2013

Field-Guided Registration for Feature-Conforming Shape Composition
Hui Huang, Minglun Gong, Daniel Cohen-Or, Yaobin Ouyang, **Fuwen Tan**, Hao Zhang
SIGGRAPH ASIA, 2012

Experience

Amazon A9, Palo Alto, United States — May.2018 - Aug.2018
Applied scientist intern in Visual Search & AR team
Design and implement a working solution for an improved image segmentation approach for creation of AR models.
Manager: Sundar Vedular; Mentor: Tony Hwang

Honda Research Institute, Mountain View, United States May.2016 - Aug.2016
Research intern in Perception Group
Research on applications of Deep Learning to traffic participant detection.
Manager: Bernd Heisele

Nanyang Technological University, Singapore Aug.2012 - Jul.2015
Research Associate at BeingThere Centre, Institute for Media Innovation
Design and implement a low-cost, fast and realistic system for personal 3D telepresence.
Supervisor: Chi-Wing Fu

AWARDS

Honor Graduate of Sun Yat-sen University, 2010
Freshman Scholarship of Sun Yat-sen University, 2006

PROFESSIONAL
SERVICES

Teaching Assistants
CS1113 (Programming), CS2150 (Data Structure) Aug.2015 - Dec.2015
CS4457 (Computer Networks), CS4810 (Computer Graphics) Jan.2016 - May.2016
CS6501 (Computational Visual Recognition) Aug.2016 - Dec.2016

Reviewer
IEEE Transactions on Image Processing (TIP) 2017