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 on Vision and Language. I am especially interested in learning compositional representations of image and language, and their applications to visual recognition, retrieval, and synthesis.

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 Compositional Scenes from Textual Descriptions
Fuwen Tan, Song Feng, Vicente Ordonez
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019, **Oral presentation**

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), 2017, Full paper

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

TEACHING   **Teaching Assistant**
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

SERVICE   **Reviewer**
Transactions on Image Processing(2017), ICCV(2019)