Xiaohan Fei

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Education

University of California, Los Angeles — Fall 2014-present
Ph.D. in Computer Science
Supervisor: Prof. Stefano Soatto
Research Group: UCLA Vision Lab (http://vision.ucla.edu)
GPA: 3.88/4.0

Zhejiang University — Fall 2010-Spring 2014
B.Eng. in Information and Communication Engineering
Major: Information and Communication Engineering
Minor: Advanced honor Class of Engineering Education (ACEE), Chu-Kechen College
GPA: 3.98/4.0(92.35/100)
Title of Undergraduate Thesis: Wide-baseline feature matching for panoramic images
Undergraduate Thesis Supervisor: Prof. Zhiyu Xiang

Research Experience

NVIDIA Research, Santa Clara, California — Summer 2018
Research Intern
Worked on unsupervised learning of structural representation for 3D objects.

Meta Company, San Mateo, California — Summer 2017
Research Intern
Developed a tightly-coupled visual-inertial SLAM algorithm for Augmented Reality.

University of California, Los Angeles — Fall 2014-present
Graduate Student Researcher
Conducting research activities under the supervision of Prof. S. Soatto. Main projects include: image based re-localization, visual-inertial sensor fusion and object-level (semantic) mapping.

Awards & Distinctions

2013: Meritorious Winner of Mathematical Contest in Modeling (top 15% of 6000 teams worldwide)
2012: National Scholorship (highest hornor for undergraduates in China)

Publications

[1] X. Fei, A. Wong, and S. Soatto. Geo-Supervised Visual Depth Prediction. Under review.
[2] X. Fei, S. Soatto. Visual-Inertial Object Detection and Mapping. ECCV, 2018.
[3] J. Dong*, X. Fei*, and S. Soatto. Visual-Inertial-Semantic Scene Representation for Object Detection. CVPR, 2017.
[4] X. Fei, K. Tsotsos, and S. Soatto. A Simple Hierarchical Pooling Data Structure for Loop Closure. ECCV, 2016.

Professional Services

Reviewer of ICCV 2017.
International Journal of Medical Robotics and Computer Assisted Surgery (IJMRCAS).

Talks & Workshops

Visual-Inertial-Semantic Scene Representation, Bridges to 3D Workshop, CVPR 2017.

Teaching

CS M152A Introductory Digital Design Laboratory, Spring 2018.

Relevant Coursework

University of California, Los Angeles: Machine Perception (Prof. S. Soatto), Convex Optimization (Prof. L. Vandenberghe), Calculus of Variations (Prof. L. Vese), Vision as Bayesian Inference (Prof. A. Yuille), Applied Probability (Prof. Y. Wu), Theoretical Statistics (Prof. A. Amini), Numerical Analysis (Prof. J. Teran), Machine Learning Algorithm (Prof. M. Sarrafzadeh)
Zhejiang University: Computer Vision (Pof. Z. Xiang), Spectral Analysis of Signals (Prof. X. Gong), Information Theory (Prof. Z. Zhang), Mathematical Modeling (Prof. Q. Yang)

Relevant Skills

Programming Language: C/C++, Python, Matlab, GLSL, Android
Software Framework: ROS, OpenCV, TensorFlow