

Shuo Wang <<http://www.stat.ucla.edu/~swang/>>

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Objective

Software Engineer positions in Computer Vision, Machine Learning

Profile

Skills Summary

- ◆ Programming: Matlab, C/C++
- ◆ Graphics: Autodesk Maya
- ◆ Design: Flash, Dreamweaver, Photoshop
- ◆ Techniques: Probabilistic Theory and Modeling, Statistical Machine Learning

Professional Experience

CENTER FOR VISION, COGNITION, LEARNING AND ART, UNIVERSITY OF CALIFORNIA, LOS ANGELES

Graduate Student Researcher, Jan 2011- Jan 2013, Los Angeles, CA, USA

- ◆ Scene Representation and Analysis
 - ◆ Proposed a novel representation under And-Or Graph to encode the geometry of scene
 - ◆ Proposed the correspondent learning and inference method
 - ◆ Applied the representation to scene categorization

LOTUS HILL RESERCH INSTITUTION

Researcher & Software Engineer, Feb 2009 – May 2009 & Jun 2010 – Aug 2010, Wuhan, Hubei, China

- ◆ Digital Portrait Sketch System
 - ◆ Applied primal sketch to generate vector flow which can be used to simulate the structure of facial muscle
 - ◆ Used multi-threshold to determine the distribution of sketch strokes
 - ◆ Used Line Integral Convolution (LIC) to simulate the sketch

STATE KEY LABORATORY OF CAD&CG, ZHEJIANG UNIVERSITY

Researcher & Software Engineer, Oct 2008 – Dec 2008, Hangzhou, Zhejiang, China

- ◆ Image Stylization Processing
 - ◆ Implement non-photorealist rendering effects such as pen-and-ink, oil-painting and mosaic

Activity Experience

THE IEEE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS (ISCAS 2013) CONFERENCE

Volunteer, May 2013, Beijing, China

GRADUATE SUMMER SCHOOL: PROBABILISTIC MODELS OF COGNITION

Participant, Jul 2011, University of California, Los Angeles, USA

1ST SINO-USA SUMMER SCHOOL IN VISION, LEARNING AND PATTERN RECOGNITION

Volunteer, Jul 2009, Peking University, Beijing, China

Projects

SCENE ANALYSIS AND ATTRIBUTE LOCALIZATION

- ◆ Propose a hierarchical compositional representation to model the scene and a weakly supervised method to learn the scene structure and attributes from a collection of images associated with attributes in text, where the precise localization of each attributes left unknown.

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IMAGE-BASED IMAGE RETRIVAL SYSTEM

- ◆ Tried bunch of features, such as bag-of-words (BoW), local binary patterns (LBP), etc. and bunch of matching metrics, such as L1/L2 form, histogram intersection, etc. to do image retrieval when given a query image

3D SURFACE RECONSTRUCTION

- ◆ Applied iterative closest point (ICP) algorithm to reconstruct the 3D model when given 2 scan 3D surface with different views

3D ANIMATION FILM “FAMILY OF THE RARE”

- ◆ Individual film project. Worked through story, layout, and design to 3D modeling, animating, and music

SIMULATION OF MUSIC FOUNTAIN

- ◆ Two people project whose objective is simulating the music fountain by partial system in OpenGL

Education

PEKING UNIVERSITY, BEIJING, CHINA

PhD candidate in Digital Media Technology, School of Computer Science, in progress (Since Sep 2009)

- ◆ Advisor: Yizhou Wang
- ◆ GPA: 88.0/100

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA), LOS ANGELES, CA, USA

Visiting scholar in Department of Statistics and Computer Science (Jan 2011 – Jan 2013)

- ◆ Advisor: Song-Chun Zhu
- ◆ Focused fields: Computer Vision, Statistic Learning, Scene Modeling, Non-Photorealistic Rendering

ZHEJIANG UNIVERSITY, HANGZHOU, ZHEJIANG, CHINA

Bachelor of Engineering Honors in Digital Media Technology, 2009

- ◆ GPA: 86.5/100
- ◆ Rank: 2/43
- ◆ Best Bachelor Thesis Award/ Excellent Graduate Award

Publication

- ◆ **S. Wang**, J. Joo, Y. Wang and S.C. Zhu, “Weakly Supervised Learning for Attribute Localization in Outdoor Scenes”, CVPR (Accepted), USA, 2013.
- ◆ **S. Wang**, Y. Wang and S.C. Zhu, “Hierarchical Space Tiling in Scene Modeling”, Asia Conf. on Computer Vision (ACCV), Korea, 2012.
- ◆ J. Joo, **S. Wang** and S.C. Zhu, “Hierarchical Organization by And-Or Tree”, Book chapter in Handbook of Perceptual Organization, eds. J. Wagemans, Springer, 2012.

Honor

- ◆ **Excellent award** in academics for Graduate Student, Peking University (2010)
- ◆ **Second-class Award** for Graduate Student, Peking University (2009 / 2010)
- ◆ **Top-100 excellent undergraduate theses**, Zhejiang University (2009)
- ◆ **Third-class Award** of WEICHAH POWER Co. LTD (2009)
- ◆ **First-class Award in multimedia design** for undergraduate student, Zhejiang Province (2008)
- ◆ **First-class Award** for undergraduate student, Zhejiang University (2007)