

Tian Lan

CONTACT INFORMATION	TASC1 8000 School of Computing Science Simon Fraser University Burnaby, BC V5A 1S6, Canada	<i>Email:</i> tla58@sfu.ca <i>Web:</i> http://www.sfu.ca/~tla58/ <i>Tel:</i> +1 (778) 782-6735
RESEARCH INTERESTS	<ul style="list-style-type: none">• Human action recognition, detection, retrieval• Group activity recognition• image segmentation via variational models• Probabilistic graphical models, Max-margin learning	
EDUCATION	Simon Fraser University (SFU) , Burnaby, BC Canada Ph.D., Computer Science <ul style="list-style-type: none">• Advisor: Prof. Greg Mori	Sept. 2010 - present
	Simon Fraser University (SFU) , Burnaby, BC Canada M.Sc., Computer Science <ul style="list-style-type: none">• Advisor: Prof. Greg Mori	Jan. 2009 - Aug. 2010
	Huazhong Univ. of Sci. and Tech. (HUST) , Wuhan, China B.E., Electronics and Communication Engineering, <ul style="list-style-type: none">• Student in the Advanced Class The Advanced Class of HUST consists of top 3% students selected from its 6 departments.• Advisor: Prof. Mingyue Ding	Sept. 2004 - Aug. 2008
RESEARCH EXPERIENCE	Vision and Media Lab , SFU <i>Research Assistant</i> Supervisor: Prof. Greg Mori <ul style="list-style-type: none">• Group activity recognition with latent structured models.• Human action retrieval from surveillance videos, one of the applications is retrieving falls of elderly residents from a large amount of videos captured in nursing home.• Human action detection with topic models.• TRECVID Event Detection project, participate in the development of an event detection system for airport surveillance.• Image segmentation with unsupervised energy minimization models, supervised by Prof. Ghassan Hamarneh.	Jan. 2009 - present
	Computer Vision Lab , HUST <i>Undergraduate Research Assistant</i> Supervisor: Prof. Mingyue Ding <ul style="list-style-type: none">• Image contour extraction with quantum mechanics.	Nov. 2007 - Dec. 2008
WORK EXPERIENCE	Avnet China , Wuhan, China <i>Summer Internship</i> <ul style="list-style-type: none">• Development of an adaptive noise canceling system with FPGA.	April 2007 - July 2007
	Avnet China , Wuhan, China <i>Summer Internship</i>	July 2006 - Sept. 2006

- An optimal design of Direct Digital Frequency Synthesizer (DDS).

PUBLICATIONS

Tian Lan, Yang Wang, Weilong Yang, and Greg Mori. Beyond Actions: Discriminative Models for Contextual Group Activities. Neural Information Processing Systems (NIPS), 2010.

Tian Lan, Yang Wang, Greg Mori, and Stephen Robinovitch. Retrieving Actions in Group Contexts. International Workshop on Sign Gesture Activity (at ECCV), 2010.

Weilong Yang, **Tian Lan**, and Greg Mori. SFU at TRECVID 2009: Event Detection, TRECVID Workshop, 2009.

Tian Lan, Yangguang Sun, and Mingyue Ding. A fast quantum mechanics based contour extraction algorithm. SPIE Medical Imaging: Image Processing, 2009.

Yangguang Sun, **Tian Lan**, Xiaowei Fu, and Mingyue Ding. A statistical approach to contour extraction based on quantum mechanics. SPIE Medical Imaging: Image Processing, 2009.

Tian Lan and Jinlin Zhang. FPGA Implementation of an Adaptive Noise Canceller. International Symposium on Information Processing (ISIP), Moscow, May 2008.

HONORS AND AWARDS

- Simon Fraser University Graduate Fellowship 2009
- Outstanding Graduate of HUST 2008
- Excellent Bachelor Thesis of HUST 2008
- Second prize of the National College Students English Contest 2005

COMPUTER SKILLS

- Programming Languages: Proficient with C/C++, OpenCV, Matlab, Verilog HDL, VHDL, basic experience in Java
- Operating Systems: Linux, Windows.