

Tuan Hue THI

CONTACT INFORMATION	National ICT of Australia Neville Roach Laboratory Level 4, 223 Anzac Parade Kensington, NSW 2033 AUSTRALIA	<i>Office:</i> +61 (2) 8306 0447 <i>Mobile:</i> +61 404 659 624 <i>E-mail:</i> huetuan1984@gmail.com <i>Web:</i> www.huetuan.net
RESEARCH INTERESTS	Computer Vision, Graphical Model, Implicit Shape Model, Motion Feature in Video, Human Event and Activity Recognition, Video Search, Weakly-Supervised Learning	
EDUCATION	The University of New South Wales , NSW, Australia Ph.D., Computer Science and Engineering (expected graduation: 2011) <ul style="list-style-type: none">• Thesis Topic: Graphical Model for Part-based Human Action Recognition• Supervisors: Prof. Xuemin Lin Dr. Jian Zhang, Dr. Li Cheng• Area of Study: Computer Vision, Machine Learning The University of Technology, Sydney , NSW, Australia B.S., Faculty of Engineering, December 2007 <ul style="list-style-type: none">• Major in Software Engineering, First Class Honours• Honour Thesis: A Robust Traffic Surveillance System for Detecting and Tracking Vehicles at Nighttime	
AWARDS	Undergraduate <ul style="list-style-type: none">• Alan Chappel Engineering Innovation Prize Finalist, 2007• Research Summer Scholarships, 2006-2007• Faculty of Engineering Deans List, 2004-2007• The ARC Centre of Excellence for Autonomous Systems Robocup Scholarship, 2006• Second place in Rescue Autonomous League, Bremen, Germany, July 2006• Second place in Sydney Regional Site - ACM Programming Contests, 2005 High School <ul style="list-style-type: none">• Second Place in the Excellent National Competition in Physics, 2002• Silver Medal from the Southern Vietnam Olympiad in Physics, 2001• Certificate of Merit, Distinction Class, Royal Australian Chemical Institute, Australian National Chemistry Quiz, 2000	
ACADEMIC EXPERIENCE	Research Internship <ul style="list-style-type: none">• National Institute of Informatics, Tokyo, Japan (March 2009 to June 2009) + <i>Supervisors:</i> Prof. Shin'ichi Satoh Weakly-Supervised Learning of Space-Time Local Features using Sparse Bayesian Kernel Machine for TrecVID Event Detection track 2009• National ICT of Australia (December 2006 to March 2008) + <i>Supervisors:</i> Dr. Jian Zhang, Sijun Lu Applications of Graphical model in Human Detection Vehicle detection and tracking using PCA, SVM, and Kalman Filter Self-calibrating methods for surveillance camera• Centre of Real-time Information Networks (March 2007 to 2008) + <i>Supervisors:</i> Prof. David Lowe, Dr. Andrew Bucknell Managing Knowledge in Web-Driven Organisational Evolution	

- A web-based multi-layer system for modeling business notations
- Australian Research Council Centre of Autonomous Systems (2004 to 2006)
 - + *Supervisors*: Prof. Gamini Dissanayake, Dr. Jaime Miro, Dr. Jonathan Paxman
 - Develop HOMER, an autonomous robot for Rescue Robocup Competition
 - Vision-based SLAM using SVM
 - 3D scene reconstruction using S3D data

Academic Reviewer

- EURASIP Journal on Image and Video Processing
- Seventh International Symposium on Neural Networks 2010
- ACM Multimedia International Conference 2010

Teaching Assistantship

- 48023 - Object-oriented Programming
- 48740 - Communications Networks

PUBLICATIONS

Journal

Tuan Hue Thi, Li Cheng, Jian Zhang, Wang Li, Shinichi Satoh, Integrating local Action Elements using Implicit Shape Model for Action Matching, Journal of Computer Vision and Image Understanding, under review

Conference Proceedings

Tuan Hue Thi, Li Cheng, Jian Zhang, Wang Li, Implicit Motion-Shape Model: A generic approach for action matching, Proceedings of the IEEE International Conference on Image Processing (ICIP), Hong Kong, China, September 26-29, 2010, accepted

Tuan Hue Thi, Li Cheng, Jian Zhang, Wang Li, Shinichi Satoh, Human Action Recognition and Localization in Video using Structured Learning of Local Space-Time Features, Proceedings of the 7th Sixth IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), Boston, USA, August 29 - September 01, 2010, accepted

Tuan Hue Thi, Li Cheng, Jian Zhang, Wang Li, Implicit Shape Modeling based on Sparse Bayesian Regression for Weakly Supervised Action Recognition, Proceedings of the 20th IEEE International Conference on Pattern Recognition (ICPR), Istanbul, Turkey, August 23-26, 2010, accepted

Tuan Hue Thi, Sijun Lu, Jian Zhang, Li Cheng, Li Wang, Human Body Articulation for Action Recognition in Video Sequences, Proceedings of the 6th Sixth IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), Genova, Italy, September 02-04, 2009

Tuan Hue Thi, Sijun Lu, Jian Zhang, Self-Calibration of Traffic Surveillance Camera using Motion Tracking, Proceedings of the 11th International IEEE Conference on Intelligent Transportation Systems (ITSC), Beijing, China, October 12-15, 2008

Tuan Hue Thi, Kostia Robert, Sijun Lu, Jian Zhang, Vehicle classification at nighttime using Eigenspaces and Support Vector Machine Proceedings of the IEEE International Congress on Image and Signal Processing(CISP), China, May 28-30, 2008

Dissanayake, G., Paxman, J.P., Valls Miro, J., Thane, Oliver, and Hue Tuan, Thi Robotics for urban search and rescue Proceedings of the IEEE First International Conference on Industrial and Information Systems (ICIIS), 2006 Presented at First International Conference on Industrial and Information Systems (ICIIS), Peradeniya, Sri Lanka, August 08-11, 2006

TECHNICAL SKILLS Programming languages: Matlab, C, C++, C#, Java, Perl, PHP, JSP, ASP, and SQL

Libraries: OpenCV, QT TrollTech, Matlab Toolboxes, Syncfusion, OpenGL

IDE: LATEX, Microsoft Visual Studio, Eclipse, Adobe Dreamweaver, KDevelop

PROFESSIONAL MEMBERSHIP Student Member of the Institute of Electrical and Electronics Engineers (IEEE)

Member of the Australian Computer Society (ACS)

Dr. Jian Zhang

Principal Researcher, Project leader, Conjoint Associate Professor
National ICT of Australia (NICTA)
Office: Room E308, Building L5
Phone: +61 2 8306 0780
Fax: +61 2 8306 0403
Email: jian.zhang@nicta.com.au
Web: <http://www.nicta.com.au/people/zhangjian>

Dr. Li Cheng

Researcher, Toyota Technological Institute at Chicago,
6045 S. Kenwood Ave., Chicago, Illinois 60637, USA
Phone: +1 773 834 6840
Email: chengli@ieee.org
Web: <http://ttic.uchicago.edu/licheng/>

Prof. Shin'ichi Satoh

Professor, Multimedia Information Research Division, National Institute of Informatics
2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo 101-8430, Japan
Phone: +81-3-4212-2620
Fax: +81-3-3556-1916
Email: satoh@nii.ac.jp
Web: <http://research.nii.ac.jp/satoh/>

Prof. Hung T Nguyen

Associate Dean, Research and Development
Faculty of Engineering, University of Technology, Sydney
Phone: +61 2 9514 2451 (Hung) or +61 2 9514 2663 (Gunasmin)
Fax: +61 2 9514 2868
Email: Hung.Nguyen@uts.edu.au
Web: <http://services.eng.uts.edu.au/htn/index.htm>

Prof. David Lowe

Associate Dean, Teaching and Learning
Faculty of Engineering, University of Technology, Sydney
Phone: +61 2 9514 2526
Fax: +61 2 9514 2435
Email: david.lowe@uts.edu.au
Web: <http://services.eng.uts.edu.au/dbl/index.htm>

Dr. Jaime Valls Miro

Research Fellow
Centre of Excellence for Autonomous Systems (CAS) UTS,
Faculty of Engineering, Room 2.6.31
Phone: +61 2 9514 2967
Fax: +61 2 9514 2655
Email: jaimе.vallsmiro@eng.uts.edu.au
Web: <http://www.cas.edu.au>