

CURRICULUM VITAE

Farshid PirahanSiah

PERSONAL INFORMATION:

Gender: Male
Marital status: Married, No children
I am from Iran

INTERESTS:

Computer Vision (OpenCV), Deep Learning (DIGITS, Caffe)

WORK EXPERIENCE:

Since June 2016 Senior Researcher at the MIMOS Berhad (Malaysia's national R&D center in ICT) in area of Computer Vision, Deep Learning, and Video Analysis.
Research and development in Computer Vision and Deep Learning

2012- 2015 *Fellowship* at Universiti Kebangsaan Malaysia (UKM) for 5 semesters

Since 2010 I have been a teaching assistant for several courses such as, OpenCV, Computer Vision (CV), intelligent systems and research tools. In addition, laboratory teaching assistants for artificial intelligent system.
I have conducted several workshops such as, Computer Vision by OpenCV, Deep Learning by Caffe and DIGITS, Research tools and related topics

EDUCATION:

2017 **Ph.D. Information Technology** (Computer Science), Faculty of Information Science and Technology (FTSM), National University of Malaysia (UKM). Title: "*camera calibration and video stabilization models based on type-2 fuzzy logic for robot localization*".
Programming language: C++, OpenCV,

2011 **Master of Information Technology** (Computer Science), Faculty of Information Science and Technology, UKM Malaysia CPGA: **3.60 / 4**
Title: "*Adaptive Single Thresholding Method for Image Segmentation Based on Peak Signal-to-Noise Ratio*". Programming language: C++, OpenCV
Automated License Plate Recognition (ALPR)

2008 **BSc. Computer Engineering** (Software Engineering), Azad University, Tafresh Branch (IAUTB), Iran CPGA: **3.41/4**

TECHNICAL SKILLS:

Programming Languages: C++ **Library:** OpenCV
OS: Windows, Linux (Ubuntu)

JOURNAL PAPERS:

2014 *Adaptive Image Thresholding based On the Peak Signal-To-Noise Ratio*, Research Journal of Applied Sciences, Engineering and Technology 8(9).

2013 *Simultaneous Localization and Mapping Trends and Humanoid Robot Linkages*, Asia-Pacific Journal of Information Technology and Multimedia (APJITM), 2013

2013 *Peak Signal-To-Noise Ratio Based On Threshold Method For Image Segmentation*, (2013). Journal of Theoretical & Applied Information Technology, 57(2).

2013 *Character recognition based on global feature extraction*; Journal of Theoretical and Applied Information Technology 52.

PROCEEDING

2015 *Augmented optical flow methods for video stabilization*. 4th Artificial Intelligence Technology Postgraduate Seminar (CAITPS 2015)

2015 *Auto-Calibration for Multi-Modal Robot Vision based on Image Quality Assessment*, the 10th Asian Control Conference (ASCC 2015).

2012 *2D versus 3D Map for Environment Movement Objects*, 2nd National Doctoral Seminar in Artificial Intelligence Technology (CAIT 2012)

- 2011** *Comparison Single Thresholding Method for Image Segmentation on Handwritten Images*, International Conference on Pattern Analysis and Intelligent Robotics, Putrajaya, Malaysia-
- 2011** *License Plate Recognition With Multi-Threshold Based on Entropy*, 3rd International Conference on Electrical Engineering and Informatics (ICEEI 2011), Bandung, Indonesia
- 2011** *Character recognition based on global feature extraction*, 3rd International Conference on Electrical Engineering and Informatics (ICEEI 2011), Bandung, Indonesia
- 2010** *Adaptive image segmentation based on Peak Signal to Noise Ratio for a license plate recognition system*, International Conference on Computer Applications and Industrial Electronics (ICCAIE 2010), Kuala Lumpur, Malaysia
- 2010** *Multi-threshold approach for license plate recognition system*, International Conference on Signal and Image Processing WASET Singapore, ICSIP 2010:1046-1050 - , Singapore
- 2010** *An evaluation of classification techniques using enhanced Geometrical Topological Feature Analysis*, 2nd Malaysian Joint Conference on Artificial Intelligence (MJCAI 2010) Kuching Sarawak, Malaysia

AWARDS/HONORS:

September 2012 – February 2015:

PhD Fellow at Universiti Kebangsaan Malaysia (UKM) for 5 semesters

2007 Top Researcher Student in Tafresh Branch Azad University (IAUTB), Iran

2008 1st rank in the 2nd semester of 2007-2008 in bachelor's degree

ACADEMIC MEMBERSHIP:

2012-2016 : IEEE membership and Computer Society membership

(Membership number: 90313176)

2009, 2016: Young Researchers Club (YRC), Club Member - Tehran, Iran

WORKSHOPS AND COMPETITION:

29th Aug 2016 NVIDIA Deep Learning Workshop @ MIMOS

Apr. 2013 FIRA Roboworld, Kuala Lumpur 2013, humanoid robot League, UKM Team.

2006-2011: Member of Tafresh robotic groups

More than 4 robotics competitions around the world since December 2003.

I have been working on image processing and artificial intelligence during my masters and PhD programs. I have designed and developed applications and algorithms for license plate recognition systems using C++ and OpenCV library in my master research. In my PhD I was continued working on Computer Vision and Robotics which is related to camera calibration, image pyramid, optical flow, video stabilization, robot localization, and Type-2 fuzzy sets and systems. I have been a teaching assistant for several courses such as, OpenCV, Computer Vision (CV), intelligent systems and research tools. In addition, laboratory teaching assistant for artificial intelligent system. Moreover, I have conducted workshops in image processing, research tools, and hands-on workshops in deep neural networks for computer vision. I also have made several tutorials in area of computer vision and deep learning. The list of my work can be found in “www.tiziran.com”. Currently, I am senior researcher at MIMOS Berhad (Malaysia's national R&D center in ICT) in area of Computer Vision, Deep Learning, and Video Analysis.