Shiva Kamkar

CONTACT INFORMATION	*Email:* sh.kamkar[at]email[dot]kntu[dot]ac[dot]ir

RESEARCH/ TECHNICAL INTERESTS

Computer Vision
Image Processing
Visual Neuroscience
Machine Learning

EDUCATION

PH.D (2016-PRESENT)
K.N.Toosi University of Technology, Tehran, Iran
Computer Engineering Department (Artificial Intelligence group)
Supervisor: Prof. Hamid Abrishami Moghaddam
Advisor: Dr. Reza Lashgari

M.SC (2012-2014)
Amirkabir University of Technology, Tehran, Iran
Computer and Information Technology Engineering Department (Artificial Intelligence group)
GPA: 17.63 / 20.0
Thesis: Vehicle Detection and Vehicle Type Determination in Video
Supervisor: Prof. Reza Safabakhsh
Grade: 20 / 20

B.SC (2008-2012)
Alzahra University, Tehran, Iran
Computer Engineering Department (Software Engineering group)
GPA: 18.75 / 20.0
Thesis: Design a Fault-Tolerant File-System based on Existing Open-Source Embedded File-Systems
Supervisor: Dr. Reza Azmi
Grade: 20 / 20

PROGRAMMING LANGUAGES

MATLAB
C++
C#
C
Python

PROGERAMMING ENVIRONMENTS

MATLAB
Microsoft Visual Studio
Qute

OPENSOURCE LIBRARIES OR FRAMEWORKS

Psychtoolbox
OpenCV
OpenGL
Boost
Caffe

AWARDS & HONORS

2016
Direct Entry to The Ph.D's Degree (using facilities for talented students)

2015
Top-Ranking in AUTCup, 3rd Amirkabir Artificial Intelligence Competitions(AAIC), The League of Detection and Tracking Moving Vehicles on Highways, Tehran, Iran, 2015

2012-2014
3th-Ranking Student in Master's Degree

2012
Direct Entry to The Master's Degree (using facilities for talented students)

2008-2012
Top-Ranking Student in Bachelor's Degree

PROFESSIONAL EXPERIENCES

2015-2016
Researcher & Developer (Full Time), Research and develop in the field of computer vision (automatic traffic monitoring system and automatic license plate recognition), Faraadid corporation, Tehran, Iran

2015, NOVEMBER	**Member of Competition Jury,** 3rd Amirkabir Artificial Intelligence Competitions(AAIC), The League of Face Recognition, Tehran, Iran
2011-2012	**Researcher (Part Time)**, Research in the field of File Systems, Operating System Security Lab, Computer Engineering Department, Alzahra University, Tehran, Iran

TEACHING EXPERIENCES

2016-2017 (SPRING SEMSESTER)	**Teaching Assistant,** Digital Image Processing Course at Electrical Engineering Department, K.N.Toosi University of Technology, Tehran, Iran
2016-2018 (FALL SEMSESTERS)	**Teaching Assistant,** Statistical Pattern Recognition Course at Electrical Engineering Department, K.N.Toosi University of Technology, Tehran, Iran
2014-2016 (FALL SEMESTERS)	**Teaching Assistant,** Statistical Machine Learning Course at Computer and Information Technology Engineering Department, Amirkabir University of Technology, Tehran, Iran

PUBLICATIONS

PERSIAN	S. Kamkar and R. Safabakhsh, "Real-Time Vehicle Counting and Classification in Video Surveillance of Traffic" in International Conference on Pattern Recognition and Image Analysis, Rasht, IPRIA, 2015, pp. 158-163.
	S. Kamkar and R. Safabakhsh, "Vehicle Detection based on Active Basis Model and Verification based on Edge Symmetry" *International Conference on Information and Knowledge Technology*, Urmia, IKT, 2015.
ENGLISH	S. Kamkar & R. Safabakhsh, "Vehicle Detection, Counting and Classification in Various Conditions" Intelligent Transport Systems, IET (JITS), vol 10(6), pp. 406-413, 2016.
	E. Soroush, A. Mirzaei & S. Kamkar, "Near Real-Time Vehicle Detection and Tracking in Highways," 15th International Conference on Traffic and Transportation Engineering, Tehran, 2016.
LANGUEGES	**Persian:** Native or bilingual Proficiency **English:** Professional Working Proficiency **Russian:** Limited Working Proficiency **Arabic:** Limited Working Proficiency