

Babak Saleh

CONTACT INFORMATION

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RESEARCH INTERESTS

Computer Vision
Pattern Recognition
Machine Learning

EDUCATION

Sharif University of Technology, Tehran, Iran

B.Sc. Computer Science, (expected graduation date: January 2010)

- Major Courses: Statistical Pattern Recognition, Modern Artificial Intelligence, Queueing Theory, Functional Programming (Haskell).

HONORS

First Prize in Short Story Writing Competition, Tehran, 2003.
Second Prize in High Schools Mathematical Competition, Tehran, 2002.
Selected for the first round of National Olympiad of Informatics, 2001-2002.
Ranked 23rd among more than 500,000 participants in "Azad University" entrance exam, 2004.

RESEARCH EXPERIENCE

Student Intern at *Computer Vision Group*, Institute for Research in Fundamental Sciences (IPM) April 2007 to present

Member of Machine Vision Laboratory, *Pars Khodro Company*
February 2009 to present

Member of Computer Vision Team, *Center for Mathematical Collaborations, Sharif University of Technology.*
2008 to present

PROJECTS

B.Sc Thesis: A new Statistical Approach for Object Detection and Classification, under the supervision of Prof. Yahya Tabesh.

Object Detection using Pictorial Structure of Gabor Template, under the supervision of Prof. Mehrdad Shahshahani.

Vision-Based Driver Assistant System (ADAS), under the supervision of Prof. Reza Razvan

Browsing Activities in Video Database using Modelling of the Context, a joint work with Hessamodin Shafeian.

PUBLICATIONS **Object Detection using Pictorial Structure of Gabor Template**, (Co-author: M. Rastegari), VISAPP 2010.

Vision-Based Driver Assistant System (ADAS), (Co-author: M. Rastegari, M. Nabi, H. Shafeian), Technical Report, Pars Khodro Company, 2009.

SEMINAR PRESENTATIONS **Learning Deformable Action Templates from Cluttered Videos**
IPM-September 2009

Vision-Based Driver Assistant System (ADAS)
Pars Khodro Company (Automobile Manufacturer)-September 2009

Object Detection using a Max-Margin Hough Transform
IPM-July 2009

Rotation and Scale Invariant Active Basis for Recognizing Deformable Template
IPM-February 2009

Probability and Mathematical basics in Computer Vision
IPM-August 2008

Active Basis for Modelling, Learning and Recognizing Deformable Templates
IPM-July 2008

TEACHING EXPERIENCE **Networks and Data Transmission**, Teaching Assistant, 2008.

WORK EXPERIENCE **Pars Khodro Company Research and Development Center**, Project: The design of a ‘Vision-Based Driver Assistant System’ (ADAS), 2009.

Hamkaran System Group Software Company, Technical Supporter, 2005-2006.

“Mantegh” Weekly Magazine, Editor and Page Designer, Summer 2008.

SKILLS **Programming:** Matlab, C++, Java, Haskell, Python, Pascal, AVR Chips

Applications: CodeVision, OpenCV

Operating Systems: Microsoft Windows XP/2000/Vista

LANGUAGE **Persian:** Native Speaker, **English:** Fluent.

HOBBIES Trekking, Tennis, Reading, Photography.