OMID GHOZATLOU

RESEARCH INTEREST

- Image Processing
- Computer Vision
- Medical Image 3D visualization
- Artificial Intelligence
- Biological Signal Processing
- Medical Imaging Systems
- Neuroscience
- Deep Learning
- Machine Learning

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Phone: +98 938 5239508

Address: Enghelab St., 14 Tehran, Iran

Date of birth: 15/11/1991

Nationality: Iran

Sex: Male

LinkedIn

EDUCATION

Master of Science

2016 – 2019   *TEHRAN, IRAN*

Biomedical Engineering, School of Electrical & Computer Engineering, University of Tehran [Link]

Thesis Title: "Patient specific dental arch estimation using SIFT algorithm in Multislice CT images"

Supervisor: Professor Reza Aghaeizadeh Zoroofi [Link] | University of Tehran | Tehran | Iran.

GPA: 15.52/20

Bachelor of Science

2010 – 2015   *TEHRAN, IRAN*

Power Systems, School of Electrical & Computer Engineering, Shahid Rajaee University [Link]

Thesis Title: "Effect of FACTs devices on enhancement of Voltage Stability in a power system"

Supervisor: Professor Shahram Khodadadi [Link] | Shahid Rajaee University | Tehran | Iran.

GPA: 14. 2/20

High School Diploma

2006 – 2010   *TEHRAN, IRAN*

National Organization for Development of Exceptional Talents (NODET), Allameh Helli High Schools, Shahriar, Tehran, Iran [Link]

Major: Mathematics and physics

GPA: 18.7/20

COMPUTER SKILLS

- Mathematical programs: MATLAB (Professional)
- Programming Language: C++, Python
- Engineering Software: 3D Slicer, Itk-SNAP, MeVisLab
- Library software: OpenCV, TensorFlow, PyTorch, Scikit-Learn

ACCOMPLISHED PROJECTS

- Design a step motor in Arduino: automatically CW/CCW using 2 micro switches, 2019
- Detection of restorations and treatments on dental x-rays in Tensorflow, 2019
- Symmetry detection using SIFT algorithm on CT images, 2018
- Dental arch estimation by sparse representation on CBCT images, 2018
- EEG feature extraction using wavelet transform, 2017
- R-R interval detection in ECG signals using an innovative algorithm, 2016

view the codes in MATLAB and Python please by click the link: https://github.com/omid-ghozatlou

TEACHING EXPERIENCES

✓ Teaching Assistant, "Machine Vision"

Under supervision of Dr. Hosseini, Department of Electrical and computer Engineering, Tehran University, Tehran, Iran, Oct 2019

✓ Teaching Assistant, "Biological Signal Processing"

Under supervision of Dr. Setarehdan, Department of Electrical and computer Engineering, Tehran University, Tehran, Iran, Oct 2018

✓ Teaching Assistant, "Signal and Systems"

Under supervision of Dr. Adhami, Department of Electrical and computer Engineering, Tehran University, Tehran, Iran, Oct 2017

LANGUAGE PROFECINITY

✓ **English: Advanced** (well in reading and speaking)

✓ **German: Goethe-Zertifikat B2**: 71.5 (Oct. 2018)

✓ **Turkish: Fluent**

✓ **Persian: Native**

PUBLICATION

Ghozatlou Omid; Reza Aghaizadeh Zoroofi; Zeinab Golab; Danial Shafaie, 2018, **Classification of maxillofacial deformities using SIFT algorithm in MSCT images**, *2nd Conference on Innovations in Computer Science and Electrical Engineering,* Tehran, Iran COI: ICSEE02_052

O. Ghozatlou and Dr. a. Zoroofi, **Patient-specific dental arch estimation via LASSO regression analysis in CBCT images**, *26th National and 4th International Iranian Conference on Biomedical Engineering (ICBME),* Tehran, Iran, 2019, pp. 124-128. DOI:10.1109/ICBME49163.2019.9030426

Jodeyri A; Ghozatlou O; Zoroofi R. "**Automatic landmark detection using CNN on CBCT images**". *(under Revision)*

HOBBIES & INTERESTS

- Movies: 12 angry men, City lights, Pulp fiction, the Hunt
- Music: Classic, Jazz, Rock, Blues, Country
- Sport: Ping Pong, Football, Running, Climbing
- Others: Traveling, Couchsurfing, Poker, Theater

HONORS & AWARDS

- Ranked **131**[th] among more than **48,800** participants in National University Graduate Entrance Exam in Electrical Engineering for M.Sc. degree 2016
  Tehran, Iran
- Receive a **Letter of Credence** titled "Innovative student society for electrical engineering" for scientific and research activities at Shahid Rajaee University 2015
  Tehran, Iran

VOLUNTARY EXPERIENCES

- Administrative Assistant, **Social Voluntary Service**, Qods Disability and Elderly Care Center. *Tehran, Iran* 2019-present.
- Member, **Student Branch of Biomedical Engineering**, University of Tehran. *Tehran, Iran* 2017-2019.

RELATED COURSES

- Digital Image Processing
- Computer Vision
- Biological Signal Processing
- Stochastic Processes
- Machine Learning
- Medical Imaging Systems
- An Introduction to Cognitive Neuroscience
- Pattern Recognition

More documents and further information: http://omidghozatlou.webstarts.com/links.html