

CURRICULUM VITAE

Leila Malihi

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EDUCATION

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|------------------|---|
| 11.2020- present | Research assistant
Cognitive science
Osnabrück university |
| 10.2011-09.2013 | Master of Science
<i>Electrical Engineering</i>
Shahid Chamran University, Ahvaz, Iran
Thesis: Malaria parasite detection using fusion of classifier and morphology (Grade: 19.6/20) |
| 10.2007-09.2011 | Bachelor of Science
<i>Electrical Engineering</i>
Shahid Chamran University, Ahvaz, Iran
Thesis: Face detection using neural network |
| 10.2002-09.2006 | High school
<i>Physics and Mathematics</i>
Farzanegan, National Organization for Development of Exceptional Talents (NODET)
Khorramabad, Iran |
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PUBLICATIONS

Journals

Richter M.L, Malihi. L, Windler, A.K.P., Krumnack. U, Analyzing the Inference Process in Deep Convolutional Neural Networks using Principal Eigenfeatures, Saturation and Logistic Regression Probes, Journal of Applied Research in Electrical Engineering, **2023**.

Malihi. L., Malihi. R., Single stuck-at-faults detection using test generation vector and deep stacked-sparse-autoencoder, SN applied science Springer Journal, 2(10), **2020**, 1-10.

Malihi. L., Ansari-Asl. K., Behbahani. A., *Improvement in Classification Accuracy Rate Using Multiple Classifier Fusion towards Computer Vision Detection of Malaria Parasite (Plasmodium vivax)*, Jundishapur journal of health sciences, 7(3):e25114, pp.26-32, **2015**.

Malihi. L., Ansari-Asl. K., Behbahani. A., *Computer-Aided Diagnosis of Malaria Parsite using Patern Recognition Methods*, Ajums Journals, 14(1), pp.65-74, **2015**.

Conferences

MALIHI.L., HÜBNER. U., etc, Can Synthetic Images Improve CNN Performance in Wound Image Classification?, Medical Informatic Europe (MIE), **2023**.

Hüusers. J., Moeleken. M., Richter. M. , Przysucha. M., Malihi. L., etc, *An Image Based Object Recognition System for Wound Detection and Classification of Diabetic Foot and Venous Leg Ulcer* , Medical Informatic Europe (MIE), **2022**.

Malihi. L., Hüusers. J., *Automatic Wound Type Classification with Convolutional Neural Networks*, International Conference on Informatics, Management, and Technology in Healthcare (ICIMTH), **2022**.

Richter M.L, Malihi. L, Windler, A.K.P., Krumnack. U, Exploring the Properties and Evolution of Neural Network Eigenspaces during Training, 2021,Machine Vision and Image Processing (MVIP), IEEE, **2021**.

Malihi. R.,Malihi. L., Design of wide band Microstrip-line-fed antenna with circular polarization at ISM band for biomedical applications, 10th International Conference on Information Technology, Computer and Telecommunications, 2020.

Nazari. H, Rostami.R, Malihi. L, Optimal operation through scheduling TOU by GA considering units uncertainties, IEEE ARES, **2018**.

Malihi. R.,Malihi. L., Noorinia.J., *New monopole planar implant antenna for medical application*,5th international conference on information technology,**2018**.

Ebadi.S.M., PoorMohamad.A. ,Malihi.L. , Airport extraction from satellite images, International conference on fundamental research in electrical engineering, **2017**.

Malihi.L., Ansari-Asl. K., *Automated Malaria Parasite Detection in Thin Blood Smear*, International Conference on Research in Science and Technology, Kualalumpur, Dec. **2015**.

Malihi. L., Ansari-Asl. K., Behbahani. A., *Improvement on Automatic Diagnosis of Malaria Parasites Using Red Blood Cells Mask*, 7th international congress clinical microbiology, shiraz, Oct.**2013**.

Malihi. L., Ansari-Asl. K., Behbahani. A., *Malaria Parasite Detection in Giemsa-stained Blood Cell Image*, Machine Vision and Image Processing (MVIP), IEEE, pp. 360 – 365, Sep.**2013**.

WORK EXPERIENCES

11.2020- present	Osnabrueck University Research assistant Osnabrueck, Germany
07.2016- 12.2019	Chief technology manager Aflak-Electro-Gostar-Mehr Company Lorestan, Iran
09.2013-12.2017	Lecturer Electrical Engineering Faculty University of Applied Science and Technology Lorestan, Iran
09.2013-12.2017	Lecturer Electrical Engineering Faculty University of Payame noor Lorestan, Iran
09.2013-10.2014	Lecturer Electrical Engineering Faculty University of Ekbatan Qazvin, Iran

TEACHING

01.2023- 07.2023	Machine learning Osnabrueck University, Osnabrück, Germany
04.2021- 10.2021	Advanced topics in deep learning Osnabrueck University, Osnabrück, Germany
10.2015-02.2018	Course: Image Processing University of Applied Science and Technology, Lorestan, Iran
08.2018-12.2018	Courses: Matlab Jahad daneshgahi of Kerman, Kerman, Iran.
10.2014-02.2015	Course: Electronics 3 Ekbatan University, Qazvin, Iran
10.2014-02.2015	Course: Signals and Systems Ekbatan University, Qazvin, Iran

RESEARCH PROJECTS

11.2021- present	Automatic Wound type classifications
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11.2020- 11.2021	Child face recognition using deep transfer learning
06.2017-05.2018	Breast and prostate cancer detection using sparse classifiers
10.2016-05.2017	Image compression and reconstruction using deep Auto encoder
05.2016-01. 2017	Noise elimination of electrocardiogram signal using deep neural network
08.2015-09.2016	Malaria parasite species detection in Giemsa stained images of thin Blood Film
01.2016-09.2016	Scene detection using sparse coding and fusion of classifiers
02.2016-05.2016	Face detection using Gabor filter and support vector machine
02.2016-07.2016	Face detection using sparse coding and fusion of classifiers
10.2014-10.2016	Automatic detection of cardiac hypertrophy using electrocardiogram signal and deep neural network
10.2011-09.2013	Malaria parasite detection using fusion of classifiers and morphology

STUDENT SUPERVISION

6.2023-12.2023	Evaluation of Generative Model <i>Master thesis, University of Osnabrück, Osnabrück, Germany</i>
10.2022-04.2023	A Comparative Study of Deep Learning Models for Glaucoma Detection using Fundus Images, Segmentation Maps and Ophthalmic Metrics <i>Master thesis, University of Osnabrück, Osnabrück, Germany</i>
05.2015-09.2016	Face detection using fusion of classifiers <i>Bachelor thesis, University of Payame Noor, Lorestan, Iran</i>
03.2016-04.2017	Panorama image with Sift algorithm <i>Bachelor thesis, University of Payame Noor, Lorestan, Iran</i>

HONORS

2011	2 nd ranked in Bachelor, Shahid Chamran University, Ahvaz, Iran
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LANGUAGES

Persian	Native
English	Fluent (spoken, written)