

Mohammadhossein Salari

Eye Tracking Researcher

Phone: (+358) 451554051 Email: mohammadhossein.salari@gmail.com
Location: Joensuu, Finland Weblog: www.mh-salari.ir
github.com/mh-salari linkedin.com/in/mh-salari

CV Updated on March 2024

Note: Everything in this color is a link

Education

Jun 2023

Doctoral researcher, *University of Eastern Finland, Joensuu, Finland*

I am a member of the MSCA Doctoral Network, participating in the [Eyes for Information, Communication, and Understanding \(Eyes4ICU\)](#) project. My project is titled [DC 3: Effective and Robust Predictive Gaze-Based Models in the Wild](#).

Sep 2018

Master of Science, *Islamic Azad University, Shiraz Branch, Shiraz, Iran*

Sep 2021

Artificial Intelligence and Robotics

Rank: 1st in the class, CPA: 19.79/20

Thesis: Automated detection of dams' location in satellite imagery and monitoring of the dam's lake reservoir changes using deep neural networks [\[Link\]](#).

Highlights: Creating all the necessary datasets for the experiment; using deep learning-based object detection techniques (such as [YOLOv5](#), [Faster R-CNN](#), and [RetinaNet](#)) and image classification models (such as [VGG](#) and [ResNet](#) and [DenseNet](#)) for dam detection, and utilizing classical image processing methods for change detection.

Sep 2011

Bachelor of Science, *Shiraz University of Technology, Shiraz, Iran*

Jul 2016

Electrical Engineering

GPA: 14.37/20

Final project: Reverse vending machine using ARM Cortex-M μ C and barcode reader.

Highlights: The university selected my final project to display at "The 17th Exhibition of Research and Technological Achievements".

Publications

Salari, MH., Shayegan, MA., & Faraji, F. (2024). Automatic Location of Carvanserais in Satellite Images Using Image Processing Techniques Based on Deep Learning. *Journal of Circuits, Data and System Analysis (JCDSA)*.

Salari, MH., Shayegan, MA., (1402). Improving the detection of spam in Persian SMS by providing a comprehensive database. *Paper presented at the First National Conference Data Analysis, Yasuj*.

Work-in-Progress

Salari, MH., & Bednarik, R. (2024). Investigating the Impact of Illumination Change on the Accuracy of Head-Mounted Eye Trackers: A Protocol and Initial Results. *9th International Workshop on Pervasive Eye Tracking and Mobile Eye-Based Interaction (PETMEI)*.

Skills

Programming

Python, C, C++, Golang, MATLAB

AI & ML

PyTorch, TensorFlow/Keras, OpenCV, Pandas, NumPy, scikit-learn

Web Scraping

Beautiful Soup, Scrapy, Selenium

Visualizations

Matplotlib, Plotly

Web

CSS, HTML, Flask, Django

Electrical

ARM Cortex-M3 family (STM32x), ESP8266, ESP32, Arduino, AVR (ATmega & ATtiny family),

Engineering

STM8, Raspberry Pi, EaglePCB, LoRaWAN

Mohammadhossein Salari

mohammadhossein.salari@gmail.com (+358) 451554051

Other Linux, LaTeX, Git, SQLite, Elasticsearch

Work Experience

Feb 2019 **CTO and Co-Founder, Quarkomm Startup, Tehran, Iran**

Feb 2021

I co-founded Quarkomm to create prototypes related to Narrowband IoT technology. We developed several devices, including an Optical Infrared Reading Cable, a LoRaWAN-based smart streetlight, and an Image Processing-based reverse vending machine.

Aug 2018

Oct 2019

Head of R&D Department, SEP Co., Tehran, Iran

I led a team to build infrastructure for smart meters and data transmission over a LoRaWAN network. We also developed a general-purpose firmware platform for remote low-power measurement.

Apr 2016

Jan 2017

R&D Electrical Engineer, Abr Network Startup, Tehran, Iran

At Abr Network, I developed a user-friendly system for teaching electronics to children. I built two prototype sets, one with STM32 microcontrollers and CAN connection, and another with ESP8266 and wireless connectivity.

Awards and Honors

Oct 2022

IEEE GRSS IADF School, IEEE Geoscience and Remote Sensing Society, Online

I was fortunate to be chosen as one of the 85 candidates to participate in the IEEE GRSS First IADF School [\[Link\]](#) on Computer Vision for Earth Observation, among more than 700 applicants.

Mar 2022

May 2022

AI Bootcamp, School of Artificial Intelligence, Pi School, Rome, Italy

I received a full scholarship to participate in the Pi School. I worked on two projects presented by real investors. The first project involved generating 3D facial animations from audio and text, while the second project concerned estimating the exact amount of fuel remaining in a car's fuel tank from OBD (On-Board Diagnostics) data.

Since 2020

Member of Young Researchers and Elite Club [\[Link\]](#).

Languages

Farsi: Native

English: EF SET English Certificate 82/100 (C2 Proficient)