Javad Sheikh

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EDUCATION

2023 – Now   **D.Sc. Faculty of Technology, University of Turku** Information and Communication Technology.
Thesis title: *Short- and long-term predictive maritime situational awareness.*

2018 – 2021   **M.Sc. Computer Engineering, Amirkabir University of Technology** in Artificial Intelligence and robotics.
Thesis title: *Anomaly detection on time series using deep neural networks.*

2013 – 2018   **M.Sc. Biomedical Engineering, Amirkabir University of Technology** in Bioelectrics.
Thesis title: *Design and Implementation of mobile room lighting control equipment for patients with paraplegic patients.*

EMPLOYMENT HISTORY

2022 – ····   **Project Researcher,** Department of Computing, University of Turku, Turku, Finland.

2019 – 2021   **Freelance AI Engineer,** Ponisha, Tehran, Iran.

2018 – 2019   **AI Engineer,** Sibbank, Tehran, Iran.

RESEARCH PUBLICATIONS

Journal Articles

1. F. Farahnakian, F. Nicolas, F. Farahnakian, P. Nevalainen, J. **Sheikh**, J. Heikkonen, and C. Raduly-Baka, "A comprehensive study of clustering-based techniques for detecting abnormal vessel behavior," *Remote Sensing*, vol. 15, no. 6, 2023, ISSN: 2072-4292. 🔗 DOI: 10.3390/rs15061477.

2. R. Karimzadeh, J. **Sheikh**, H. Azarnoush, and H. Arabi, "Design and Implementation of Brain Surgery Bipolar Electrocautery Simulator Using Haptic Technology," *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*, vol. 47, no. 3, pp. 859–869, Sep. 2023, ISSN: 2228-6179. 🔗 DOI: 10.1007/s40998-022-00585-3.

3. V. Sheikh, A. Sadoddin, A. Najafinejad, A. Zare, A. Hollisaz, H. Siroosi, M. Tajiki, M. Gholipouri, and J. **Sheikh**, "The density difference and weighted rva approaches for assessing hydrologic regime alteration," *Journal of Hydrology*, vol. 613, p. 128 450, 2022, ISSN: 0022-1694. 🔗 DOI: 10.1016/j.jhydrol.2022.128450.

4. V. Sheikh, H. RezaeiMoghaddam, R. Jafary, Z. gholami, and J. **Sheikh**, "Design, construction and performance evaluation of an automatic weighing lysimeter," *Water and Irrigation Management*, vol. 10, no. 1, pp. 61–73, 2020, ISSN: 2251-6298. 🔗 DOI: 10.22059/jwim.2020.294404.738.

5. F. Nazarimehr, J. **Sheikh**, M. M. Ahmadi, V.-T. Pham, and S. Jafari, "Fuzzy predictive controller for chaotic flows based on continuous signals," *Chaos, Solitons & Fractals*, vol. 106, pp. 349–354, 2018, ISSN: 0960-0779. 🔗 DOI: 10.1016/j.chaos.2017.12.005.

Conference Proceedings

1. J. **Sheikh**, F. Farahnakian, F. Farahnakian, and J. Heikkonen, "Ice-water segmentation using deep convolutional neural network-based fusion approach," in *2023 28th International Conference on Automation and Computing (ICAC)*, 2023, pp. 1–6.

2. J. **Sheikh**, F. Farahnakian, F. Farahnakian, and J. Heikkonen, "Sea ice concentration estimation via fusion of sentinel-1 and amsr2 based on encoder-decoder architecture," in *2023 IEEE 26th International Conference on Intelligent Transportation Systems (ITSC)*, 2023, pp. 1–6.

TEACHING EXPERIENCE

Spring 2019   **Software Teaching Assistant,** Department of Computer Engineering, Amirkabir University of Technology, Tehran, Iran.

spring 2015   **Software Teaching Assistant,** Department of Biomedical Engineering, Amirkabir University of Technology, Tehran, Iran.

SKILLS

Languages	IELTS Academic CEFR level C1 in English, Mother tongue Persian.
Coding Languages	Python, Java, Matlab, C/C++, SQL, JavaScript, HTML/CSS …
Developer Tools	Visual Studio Code, Android Studio, Google Colab, Kaggle
Version Control	Git, GitHub, GitLab
Typesetting	TEX, Word, google docs
Operating Systems	Windows, Ubuntu

MISCELLANEOUS EXPERIENCE

Awards and Achievements

2018   **M.Sc. National University Entrance Exam**, Achieved the 87th place in the national M.Sc entrance exam in Computer Engineering.

2013   **B.Sc.National University Entrance Exam**, Ranked in the top 0.5% among 251,000 students in the national university entrance exam in mathematics and physics discipline.

REFERENCES

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