pouya
Jafarzadeh

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Education

Bachelor of Engineering, Degree Programme in Information Technology Embedded Software — **Jun 2011**

Turku University of Applied Scienses, Turku

Bachelor of Humanities, Community Interpreting — **Jun 2015**

Diaconia University of Applied Scienses,, Turku

Master of Technological Competence Management — **Mar 2020**

Turku University of Applied Scienses, Turku

GPA: 4.43 / 5

Doctoral Programme in Technology (DPT) **Jun 2020 — Present**

University of Turku, Turku

Computer Science (PhD)

Publications

1) Conferences:

[1] Jafarzadeh. P, Farahnakian. F, Paalassalo. J, Eerola. O, "IoT-based Household Energy Consumption

Prediction Using Machine Learning". 6th EAI International Conference on Smart Cities (Mobility IoT),Poland, 2019.

[2] Jafarzadeh. P, Virjonen. P, Nevalainen. P, Farahnakian. F, Heikkonen. J, "Pose Estimation of Hurdles Athletes using OpenPose". The International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), Mauritius, 2021.

[3] Pouya Jafarzadeh∗, Luca Zelioli∗, Fahimeh Farahnakian∗, Paavo Nevalainen∗, Jukka Heikkonen∗,Petteri Hemminki†, Christian Andersson, Real-Time Military Tank Detection Using YOLOv5 Implemented on Raspberry Pi,4th International Conference on Artificial Intelligence, Robotics, and Control

,The British University in Egypt,Cairo.

2)Books

Farahnakian. F, Heikkonen, Jafarzadeh.P. Special Issue "Deep Learning and Computer Vision in Remote Sensing-II", ISBN 978-3-0365-6368-8.

3) Book Chapter:

Jafarzadeh. P, Farahnakian. F, Paalassalo. J, Eerola. O, "IoT-based Household Energy Consumption Prediction Using Machine Learning". Book Chapter, EAI/Springer Innovations in Communications and Computing series, Advances in Industrial Internet of Things, Engineering and ManagementISBN 978-3-030-69704-4, 2021.

3) Theses:

[1] IoT- based smart house energy usage prediction by means of machine learning, M.Sc. Thesis project, 2011.

[2] Statistical analysis of factors affecting telephone interpreting based on Finnish authorities' point of view. B.Sc. Thesis project, 2015.

[3]Site implementation with Jooma- content management system. B.Sc. Thesis project, 2011.

Academic Activities

Tutorial and Workshop Organization:

- Tutorial of “Deep Learning for Sensor Fusion” , The 16th edition of the IEEE International Symposium on Robotic and Sensors Environments (IEEE ROSE 2023)
- Tutorial of “Deep Learning for Multispectral, Multiresolution and Multisensor Data Fusion“, 26TH The International Conference on FUSION (Fusion2023)
- Tutorial of “Deep Learning for Data Fusion“, IEEE International Conference on Data Science and Advanced Analytics (DSAA’2021).

Journal Editorial Board:

- Editor of the Special Issue on “Deep Learning and Computer Vision in Remote Sensing II“, Deadline for manuscript submissions: 30 January 2023.
- Editor of the Special Issue on “Deep Learning and Computer Vision in Remote Sensing“, Deadline for manuscript submissions: 30 November 2021.

Members:

- Member of Doctoral Programme in Technology streering committee university of Turku
- Member of TECH development group university of Turku

Teaching:

- Python programming course at university of Turku

Technical Skills

- Programming Languages: Python, Java, C/C++, MATLAB, LATEX, SQL,
- Tools and Frameworks: Tensorflow, Theano, Kaldi, numpy,
- Prototyping: Arduino IDE
- Computer Knowledge: Front Page, Flash, Office, Photo Shop

- Operation Systems: Windows, UNIX/Linux

Research Interests

Big data, data analysis, Artificial intelligence, machine learning, neural networks, deep learning, Internet of Things, Smart healthcare, Computer vision.

Work experience

University of Turku, Turku **2020 — Presnt**

Researcher