

SADAF FARKHANI

📅 19th June 1992

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📍 Aarhus, Denmark

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PROFESSIONAL SUMMARY

I have been working on computer vision using machine learning algorithms approximately for 6 years. I have experiences in medical and agricultural applications. During my Ph.D., I have worked on depth completion in autonomous driving vehicle, satellite segmentation, and explainable deep learning algorithm. I'm proud that my team-working activities comes up with taking responsibilities simultaneously. I would like to learn more and working on the edge of technology.

WORK SUMMARY

Research Assistant

Aarhus University

📅 Nov. 2018 – May 2019

📍 Aarhus, Denmark

- Summarized search results by preparing written reports, graphs, fact sheets and tables
- Developed macros, special formulas and other actions to produce reliable and consistent statistical reviews
- Assisted in research support of data processing operations for large survey research projects

Trainee

Arian-Sepahan Equip.

📅 Dec. 2014 – Sep. 2015

📍 Isfahan, Iran

- Programming using Matlab and C
- Repairing electrical device

EDUCATION

Ph.D. Electrical and Computer Engineering

Aarhus University

📅 May 2019 – Present

- Majored in computer vision and deep learning
- Thesis title: Soft object classification based on deep learning in agriculture

M.Sc. Telecommunication Engineering

Azad University of Najafabad

📅 Sept. 2015 – Feb 2018

- Majored in computer vision and machine learning
- Thesis title: MRI and PET Image Fusion using Multi-spectral Transform and Sparse Representation
- GPA: 18.5/20

B.Sc. Electrical Engineering

Azad University of Najafabad

📅 Sept. 2010 – Aug 2014

- Majored in Telecommunication
- Member of IEEE at Najafabad branch
- Thesis title: Digital Image Watermarking
- GPA: 16.6/20

INTERESTS

- Machine Learning
- Computer Vision
- Deep Learning
- Explainable networks

PROFESSIONAL SKILLS

Python

Matlab

Java

C

QGIS



SOFTSKILLS

Learning Potential

Team Work

Responsible

Flexibility

Professionalism

LANGUAGE

Persian

English

Danish



MOST PROUD OF



Best presentation award for "Sparse-to-dense depth completion in precision farming"

REFEREES

Senior Sci. Rasmus Nyholm Jørgensen

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8200 Aarhus N, Denmark

PUBLICATION

- S. Farkhani, S. Skovsen, A. K. Mortensen, M. S. Laursen, R. N. Jorgensen, H. Karstoft, "Initial Evaluation of Enriching Satellite Imagery Using Sparse Proximal Sensing in Precision Farming", *SPIE. Remote Sensing*. 2020
- S. Farkhani, M. F. Kragh, P. H. Christiansen, RN Jørgensen, H Karstoft, "Sparse-to-Dense Depth Completion in Precision Farming", *Proceedings of the 3rd International Conference on Vision, Image and Signal Processing*. 2019
- S. Skovsen, M. Dyrmann, A. K. Mortensen, M. S. Laursen, R. Gislum, J. Eriksen, S. Farkhani, H. Karstoft, R. N. Jorgensen, "The GrassClover Image Dataset for Semantic and Hierarchical Species Understanding in Agriculture", *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops*, 2019
- S. Farkhani, H. Pourghassem, "Sparse-Based Medical Image Fusion Using a Novel Optimal Dictionary Strategy and Shearlet Transform", *Iranian Conf. on Elec. Eng. (ICEE)*, pp. 1435-1440, 2018