Eid Alkhaldi

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https://github.com/alkhaldieid/cv/blob/master/cv.pdf PDF

(Last updated February 27, 2022.)

Basic Info

: eid.alkhaldi@gmail.com : github.com/alkhaldieid

- An Electrical Engineering PhD candidate at the University of Toledo WWW, focusing mostly on the diagnostic applications of Deep Learning in medical imaging.

Institutions

2017–present | **Ph.D. in Engineering**
University of Toledo, Toledo, Ohio, USA Focusing on medical image processing, Artificial Inteligence and Deep Learning. Advisor: Dr. Ezzatollah Salari.

2015–2017 | **M.S. in Electrical Engineering**
University of Toledo, Toledo, Ohio, USA

2014 | **B.S. in Electrical Engineering**
Oklahoma State University, College of Engineering, Architecture and Technology Stillwater, Oklahoma, USA

Publications

In Progress | **Ensemble Optimization for Histological Image Classification**
Dissertation, University of Toledo Committee: Dr. Ezzatollah Salari, Dr. Kim, Junghwan,, Eddie Y. Chou, Ph.D., P.E., Dr. Richard G. Molyet.

In Progress | Ensmble Optimization for IDC Classification Using CSA

2022 Submitted | Ensmble Optimization for IDC Classification Using dCGPANN

2019 | **Alkhaldi, E. & Salari, E. Genetically Optimized Heterogeneous Ensemble for Histological Image Classification.**
International Journal of Science and Engineering Investigations (IJSEI), 8(95), 113-118. PDF
http://www.ijsei.com/papers/ijsei-89519-16.pdf

2021 | **Alkhaldi, E. & Salari, E. Adaptive PSO-Based Ensemble Optimization for Histology Image Classification.**
International Journal of Computer Science and Technology (IJCST), Vol 12, Issue 1, Version Jan-March 2021.
PDF *https://www.ijcst.com/vol12/issue1/3-eid-alkhaldi.pdf*

Presentations

Soon | **"Ensemble Optimization for Histological Image Classification"**
PhD Proposal Defense

Licenses & Certifications

2018 | **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization And Optimization** WWW
Coursera, issued March 2018

2018 | **Neural Networks and Deep Learning**
Coursera, issued February 2018

Languages

Human	Arabic, English
Machine	Python, Matlab/GNU Octave, bash/shell, C, C++ , markup languages including LaTeX / XeTeX, R Markdown, basic HTML.
Deep Learning	PyTorch, TensorFlow, Keras, Fastai and Sikit-Learn
Other Tools	OpenCV, MATLAB, DEAP (Genetic optimization framamework) , Linux

Research Interests

- Digital Image Processing, Signal Processing and Communication Systems
- Applications of Artificial Intelligence in Medical images, healthcare systems, Cybersecurity and Finance
- Machine Learning, Deep Learning, Data Science and Big Data
- Hyperparameter Tuning, Non-convex Optimiation, Numerical Methods and Biologically Inspired Computing

Public Code and Scripts

In Progress	**Genetic Algorithm Ensemble Optimization** *A Genetic Algorithm based optimization framework that automatically tune ensembles hyperparameters*
In Progress	**Quantim Computing based Transfer Learning** *A Quantum based Learning Rate Scheduler for transfer learning models*
In Progess	**Histology Image Classification models for ICIAR** *Various pretrained models for breast cancer detection in histology images. Achieved 88% accuracy on the ICIAR dataset*

Engineering Projects

- UC Davis NATCAR Design Contest (Oklahoma State University 2014 team).
  - Responsibilities: ...
    - Microprocessor and interface with other blocks of the system
    - Design the power circuit for the whole system
    - Choosing the best value Battery that meet the project specs
    - The servo control software

Volunteering and Extracurricular activities

- MSA vice president (2011-2012)
- SSA member (2007 – 2012)

References

- References are available upon your request.
- Email me and I'll refer you to my mentors based on your interests.