


Eid Alkhalidi, Ph.D.

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Basic Info

 : eid.alkhalidi@gmail.com  : github.com/alkhaldieid
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- An exceptionally driven and seasoned AI Research Scientist with a profound background in pioneering AI and ML research and development. My unwavering passion lies in resolving complex real-world challenges through the creation of innovative AI solutions, underscored by a distinguished track record of articulating discoveries in the form peer-reviewed scientific papers

Institutions

2017--2022	Ph.D. in Engineering <i>University of Toledo, Toledo, Ohio, USA</i> Focusing on medical image processing, Artificial Intelligence and Deep Learning. Advisor: Dr. Ezzatollah Salari .
Dissertation Title: <i>Ensemble Optimization for Histological Image Classification</i>	
2015--2017	M.S. in Electrical Engineering <i>University of Toledo, Toledo, Ohio, USA</i>
2014	B.S. in Electrical Engineering <i>Oklahoma State University, College of Engineering, Architecture and Technology</i> Stillwater, Oklahoma, USA

Publications

2022	Ensemble Optimization for Histological Image Classification <i>Dissertation, University of Toledo</i> Committee: Dr. Ezzatollah Salari , Dr. Kim, Junghwan, , Eddie Y. Chou, Ph.D., P.E., Dr. Richard G. Molyet.
Dec 2022	E. Alkhalidi and E. Salari, "Ensemble Optimization for Invasive Ductal Carcinoma (IDC) Classification Using Differential Cartesian Genetic Programming," in <i>IEEE Access</i> , vol. 10, pp. 128790-128799, 2022, doi: 10.1109/ACCESS.2022.3228176. <i>IEEE Access</i>  https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=arnumber=9978635
2022	Alkhalidi, E. & Salari, E. "Ensemble Optimization Using Clonal Selection Algorithm for Breast Cancer Histology Image Classification" <i>International Journal of Computer Science and Technology (IJCST)</i> Vol. 13, Issue 4, Oct - Dec 2022  https://www.ijcst.com/vol12/issue1/3-eid-alkhalidi.pdf
2021	Alkhalidi, E. & Salari, E. "Adaptive PSO-Based Ensemble Optimization for Histology Image Classification" <i>International Journal of Computer Science and Technology (IJCST)</i> , Vol 12, Issue 1, Version Jan-March 2021.  https://www.ijcst.com/vol12/issue1/3-eid-alkhalidi.pdf
2019	Alkhalidi, E. & Salari, E. "Genetically Optimized Heterogeneous Ensemble for Histological Image Classification" <i>International Journal of Science and Engineering Investigations (IJSEI)</i> , 8(95), 113-118.  http://www.ijsei.com/papers/ijsei-89519-16.pdf

Presentations

Dec 2022	PhD Dissertation Defense <i>"Ensemble Optimization for Histological Image Classification"</i>
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APRIL 2022	PhD Proposal Defense ``Ensemble Optimization for Histological Image Classification"
OCT 2021	Optimized PhD Workflow Tutorial for UT grad students ``LaTeX, BibTeX, Mendeley and Emacs workflow for writing PhD dissertations"

Licenses & Certifications

2018	Improving Deep Neural Networks: Hyperparameter Tuning, Regularization And Optimization WWW Coursera, issued March 2018
2018	Neural Networks and Deep Learning WWW 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 Excel, MS office

Research Interests

- Artificial Intelligence and STEM education
- 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

PUBLISHED	Histology Image Classification models for ICIAR and IDC  Various pretrained models for breast cancer detection in histology images. Achieved 88% accuracy on the ICIAR WWW dataset
PUBLISHED	PhD Emacs  Rich-featured and minimal Emacs configuration ideal for researchers and grad students

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

- **Dr. Ezzatollah Salari**
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