


Eid Alkhaldi, Ph.D.

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<https://github.com/alkhaldieid/cv/blob/master/cv.pdf>


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Basic Info




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- A results-driven and accomplished Electrical Engineer with a Ph.D. and a strong publication record in esteemed journals such as IEEE Access. Demonstrating over 8 years of dedicated research experience, I have established expertise in Deep Learning, Computer Vision, Bio-inspired optimization methods, and Machine Learning. As evidenced by my four published journal papers as a first author, I exhibit a commitment to scholarly excellence and innovation in academic pursuits. Seeking to leverage my academic background and research proficiency, I am eager to transition into a role as a University Assistant Professor. My extensive experience in leading-edge technologies and interdisciplinary research equips me to contribute effectively to both teaching and research endeavors within the academic community. Driven by a passion for advancing knowledge and fostering intellectual curiosity, I am poised to inspire and mentor the next generation of scholars while furthering the boundaries of scientific inquiry. With a proven track record of collaborative research projects and a dedication to academic rigor, I am prepared to make meaningful contributions to the academic institution and its scholarly community.

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. Alkhaldi and E. Salari, "Ensemble Optimization for Invasive Ductal Carcinoma (IDC) Classification Using Differential Cartesian Genetic Programming," in IEEE Access, vol. 10, pp. 128790-128799, 2022, doi: 10.1109/ACCESS.2022.3228176. IEEE Access  https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=arnumber=9978635
2022	Alkhaldi, E. & Salari, E. "Ensemble Optimization Using Clonal Selection Algorithm for Breast Cancer Histology Image Classification" <i>International Journal of Computer Science and Technology (IJCST) Vol. 13, Issue 4, Oct - Dec 2022</i>  https://www.ijcst.com/vol12/issue1/3-eid-alkhaldi.pdf
2021	Alkhaldi, E. & Salari, E. "Adaptive PSO-Based Ensemble Optimization for Histology Image Classification" <i>International Journal of Computer Science and Technology (IJCST), Vol 12, Issue 1, Version Jan-March 2021.</i>  https://www.ijcst.com/vol12/issue1/3-eid-alkhaldi.pdf

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

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

Licenses & Certifications

2024	Generative AI with Large Language Models  <i>Coursera, issued Jan 2024</i>
2018	Improving Deep Neural Networks: Hyperparameter Tuning, Regularization And Optimization  <i>Coursera, issued March 2018</i>
2018	Neural Networks and Deep Learning  <i>Coursera, issued February 2018</i>



Languages

HUMAN	Arabic, English
MACHINE	Python, Matlab/GNU Octave, bash/shell, C, C++ , markup languages including \LaTeX / X_{\LaTeX} , R Markdown, basic HTML.
DEEP LEARNING	PyTorch, TensorFlow, Keras, Fastai and Sikit-Learn
OTHER TOOLS	OpenCV, MATLAB, DEAP (Genetic optimization framamework) , Linux <i>Excel, MS office</i>

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

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

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