

Eid Alkhalidi, Ph.D.

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(Last updated October 14, 2023.)

Basic Info

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- E-Learning Visionary | Tech Enthusiast | Driven by Saudi Vision 2030


A passionate and dedicated educator with a strong background in artificial intelligence and STEM education. I'm deeply passionate about e-learning's potential to transform lives, a belief born from my own profound experiences with platforms like Coursera and DeepLearning.AI during my Ph.D. journey. With 8+ years specializing in machine learning and AI, my skills have grown alongside my dedication to education. Armed with a Ph.D. in Electrical Engineering, I'm well-versed in complex technological landscapes, having also mastered computer science and statistics. My mission is to bring this transformative power to the Saudi educational system, aligning perfectly with Saudi Vision 2030. My commitment to e-learning's possibilities and my proficiency in AI make me a valuable asset to any team with a similar mission. My ability to actively listen and understand the perspectives of my colleagues has consistently contributed to effective teamwork and problem-solving. I believe that strong team collaboration begins with attentive listening, and my commitment to this principle has led to successful projects and cohesive teams. Through my excellent listening skills, I aim to create an environment where every team member feels valued and heard.

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 IEEE Access, 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) Vol. 13, Issue 4, Oct - Dec 2022</i>  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), Vol 12, Issue 1, Version Jan-March 2021.</i>  https://www.ijcst.com/vol12/issue1/3-eid-alkhalidi.pdf

2019	Alkhaldi, 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
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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

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  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

- **Dr. Ezzatollah Salari**
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