

Eid Alkhalidi

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


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Basic Info

: eid.alkhalidi@gmail.com


: github.com/alkhaldieid

- Doctoral student in Electrical Engineering at the [University of Toledo](#) , focusing mostly on the diagnostic applications of Deep Learning in medical imaging.
- Maintainer and developer of a Deep Learning-based Cancer Classification system at <https://github.com/alkhaldieid/iciar> 

Institutions

2017–PRESENT	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 .
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

IN PROGRESS	Deep Learning Approaches to Histology Image Analysis for Automated Medical Diagnosis <i>Dissertation, University of Toledo</i> Committee: Dr. Ezzatollah Salari , Dr. Kim, Junghwan , Eddie Y. Chou , Ph.D., P.E. , Dr. Richard G. Molyet .
IN PROGRESS	“GA Optimization of Histology Image Classification Ensembles” <i>21th Annual IEEE International Conference ON Electro Information Technology (eit2021)</i>
SUBMITTED	“Adaptive PSO-Based Ensemble Optimization for Histology Image Classification” <i>IEEE Open Journal of Signal Processing</i>
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

SOON	“GA Optimization of Histology Image Classification Ensembles” <i>21th Annual IEEE International Conference ON Electro Information Technology (eit2021)</i>
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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 / \XeTeX , R Markdown, basic HTML.
DEEP LEARNING		PyTorch, TensorFlow, Keras, Fastai and Sikit-Learn
OTHER TOOLS		OpenCV, MATLAB, DEAP (Genetic optimization framamework) , Linux, AWS, GCC

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  <i>A Genetic Algorithm based optimization framework that automatically tune ensembles hyper-parameters</i>
IN PROGRESS		Quantim Computing based Transfer Learning  <i>A Quantum based Learning Rate Scheduler for transfer learning models</i>
2017–Now		Histology Image Classification models for ICIAR  <i>Various pretrained models for breast cancer detection in histology images. Achieved 88% accuracy on the ICIAR WNV dataset</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

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