


# Eid Alkhalidi


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[github.com/alkhaldieid](https://github.com/alkhaldieid)   
(Last updated February 26, 2020.)

## Basic Info

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: [eid.alkhalidi@gmail.com](mailto:eid.alkhalidi@gmail.com)

: [github.com/alkhaldieid](https://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

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2017–PRESENT	<b>Ph.D. in Engineering</b> <i>University of Toledo, Toledo, Ohio, USA</i> Focusing on medical image processing, Artificial Intelligence and Deep Learning. Advisor: <a href="#">Dr. Ezzatollah Salari</a> .
2015–2017	<b>M.S. in Electrical Engineering</b> <i>University of Toledo, Toledo, Ohio, USA</i>
2014	<b>B.S. in Electrical Engineering</b> <i>Oklahoma State University, College of Engineering, Architecture and Technology</i> Stillwater, Oklahoma, USA

## Presentations

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SOON	<b>“GA Optimization of Histology Image Classification Ensembles”</b> <i>20th Annual IEEE International Conference ON Electro Information Technology (eit2020)</i>
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## Languages

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HUMAN	Arabic, English
MACHINE	Python, Matlab/GNU Octave, bash/shell, C, C++ ; markup languages including $\text{\LaTeX}$ / $\text{\XeTeX}$ , R Markdown, basic HTML.
DEEP LEARNING	PyTorch, TensorFlow, Keras, Fastai and Sikit-Learn
OTHER TOOLS	OpenCV, MATLAB, DEAP (Genetic optimization framamework) , Linux, AWS, GCC

## Public Code and Scripts

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



## Publications

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IN PROGRESS	<b>Deep Learning Approaches to Histology Image Analysis for Automated Medical Diagnosis</b> <i>Dissertation, University of Toledo</i> Committee: <a href="#">Dr. Ezzatollah Salari</a> , <a href="#">Dr. Kim, Junghwan</a> , <a href="#">Eddie Y. Chou</a> , <a href="#">Ph.D.</a> , <a href="#">P.E.</a> , <a href="#">Dr. Richard G. Molyet</a> .
SUBMITTED	<b>“GA Optimization of Histology Image Classification Ensembles”</b> <i>20th Annual IEEE International Conference ON Electro Information Technology (eit2020)</i>
2019	<b>Alkhaldi, E. &amp; Salari, E. Genetically Optimized Heterogeneous Ensemble for Histological Image Classification.</b> <i>International Journal of Science and Engineering Investigations (IJSEI)</i> , 8(95), 113-118.  <a href="http://www.ijsei.com/papers/ijsei-89519-16.pdf">http://www.ijsei.com/papers/ijsei-89519-16.pdf</a>

## Licenses & Certifications

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2018	<b>Improving Deep Neural Networks: Hyperparameter Tuning, Regularization And Optimization</b>  <i>Coursera, issued March 2018</i>
2018	<b>Neural Networks and Deep Learning</b>  <i>Coursera, issued February 2018</i>

## Research Interests

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- 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

## Engineering Projects

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- 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

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

## References

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