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JOHNS HOPKINS
WHITING SCHOOL
of ENGINEERING

Computer Science

"AI in Medical Imaging"



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10:45 AM - 12:00 PM



<https://wse.zoom.us/j/96960544691>
Meeting ID: 969 6054 4691



ABSTRACT

Medical imaging is a common diagnostic and research tool for application to diseases in the human body. The advent of advanced machine learning (ML) and neural network techniques has opened the possibility of learning more from imaging that has been previously possible. Beyond standard classification and segmentation applications of neural networks in imaging, there are questions about how sure we can be of the output of a neural network which is viewed as a black box. This talk will highlight work with three areas within the SOM all focused on medical imaging research. Neural network segmentation of images remains a primary application of AI algorithms, but the information returned by neural networks may be in question by the medical community (and AI researchers, too). A method of quantifying the uncertainty in segmented images, will be shown, and then discuss applying a modification to a sequential learning algorithm. Further, preliminary results in image artifact detection will be shown on OCT angiography images for large scale processing of OCTA images. The application of the AI/ML techniques are still at an infancy in medical imaging and new questions are being asked about how to apply simple and advanced AI in medical imaging for understanding disease progression.

BIO

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