



Department of
Mathematical Sciences

Master's Thesis Defense

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MS Graduate Student

Under the Supervision of Istvan Lauko

Friday, May 7th 2021

@ 10:00am

Online via.
Microsoft Teams



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Applications of a U-NET Variant Neural Network: Image Classification for Vegetation Component Identification in Outdoors Images and Image to Image Translation of Ultrasound Images

Recent advancements in deep neural networks have been a popular method among researchers working on tasks involving images, such as image classification and image to image translation. My defense focuses on using a variant of the neural network architecture U-Net, to classify vegetation in outdoor images, and translate ultrasound images that were acquired with a low frequency transducer to have the appearance that they were acquired from a high frequency transducer.

Committee Members:

Prof. Istvan Lauko, David Spade, Dexuan Xi



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