## **Automated Detection of Vertebral Body Metastases for Fully-Automated Palliative Radiotherapy Using Transfer Learning**



SIMULATION CT "This deep learning model identifies potential **TESTING TRAINING** treatment regions which can be used to set 2846 images isocenter..." 3741 images PATIENT TEST CASE High CT# Lytic Metastasis TRANSFER LEARNING **49 NORMAL 92 BONY METS False Positive Region True Positive Region ROC Curves** TEATMENT PLAN **DATABASE** 2490 116 Sensitivity True Positive 27 213 **CT Slice Number** Session Title: Advanced Computing Applications Not Diseased Diseased Date and Time: 07/30/2018| 4:30PM - 6:00PM Specificity **Model Prediction** Presenting Author: Tucker Netherton