

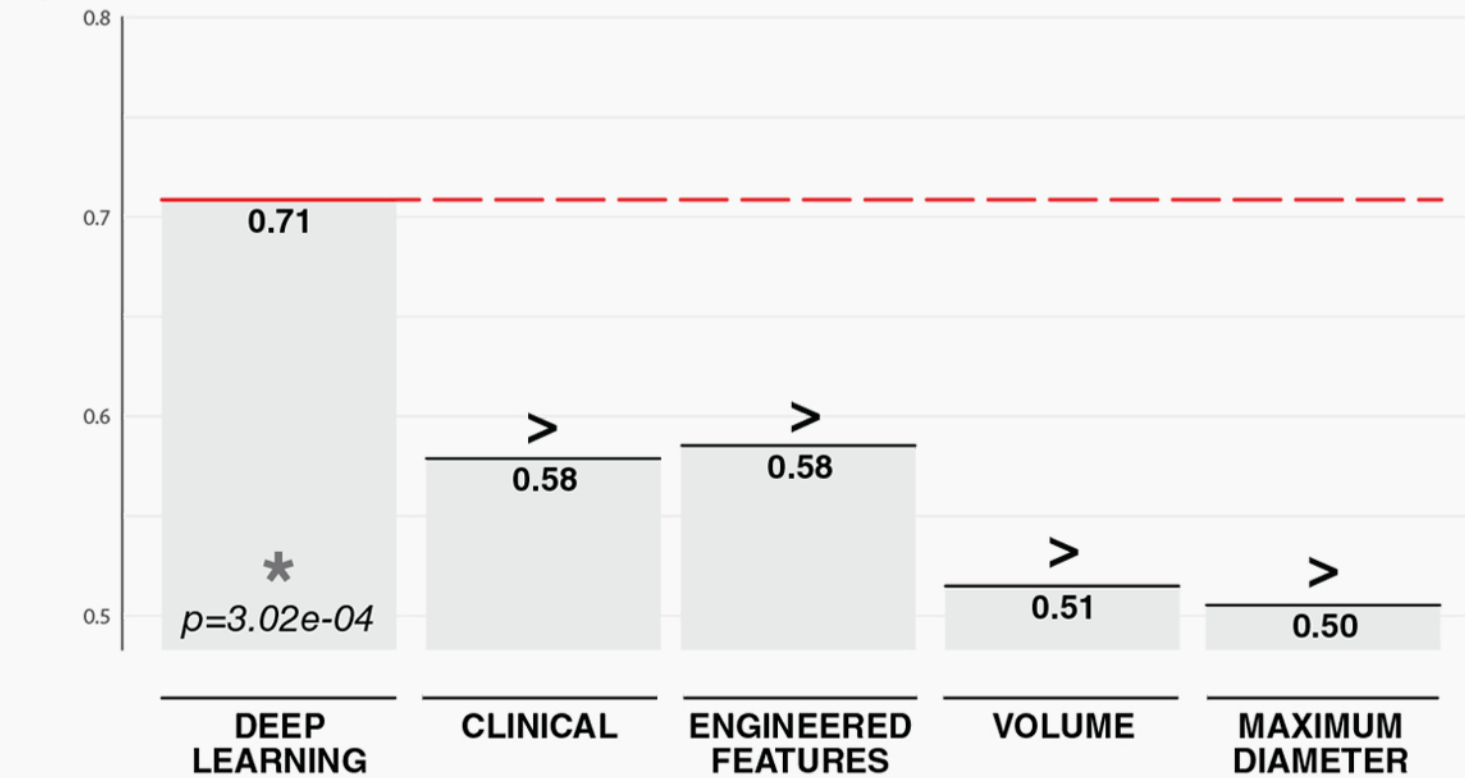
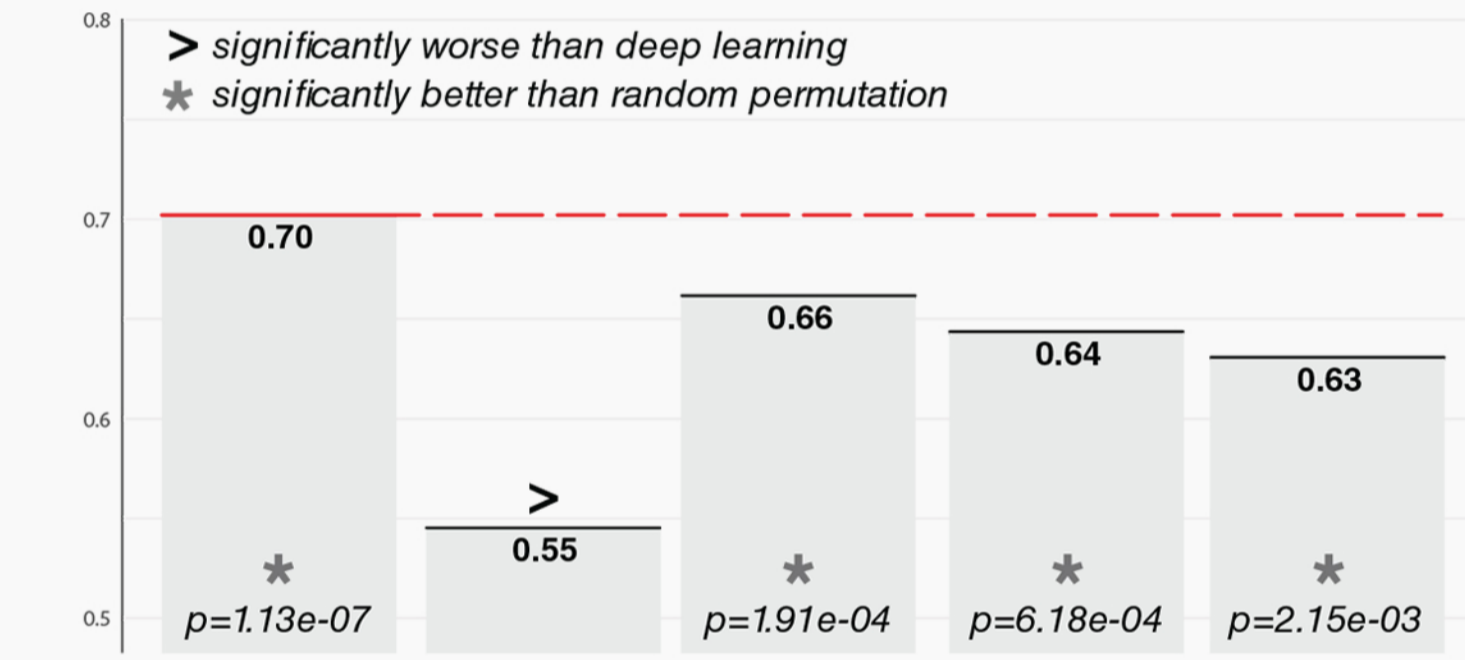
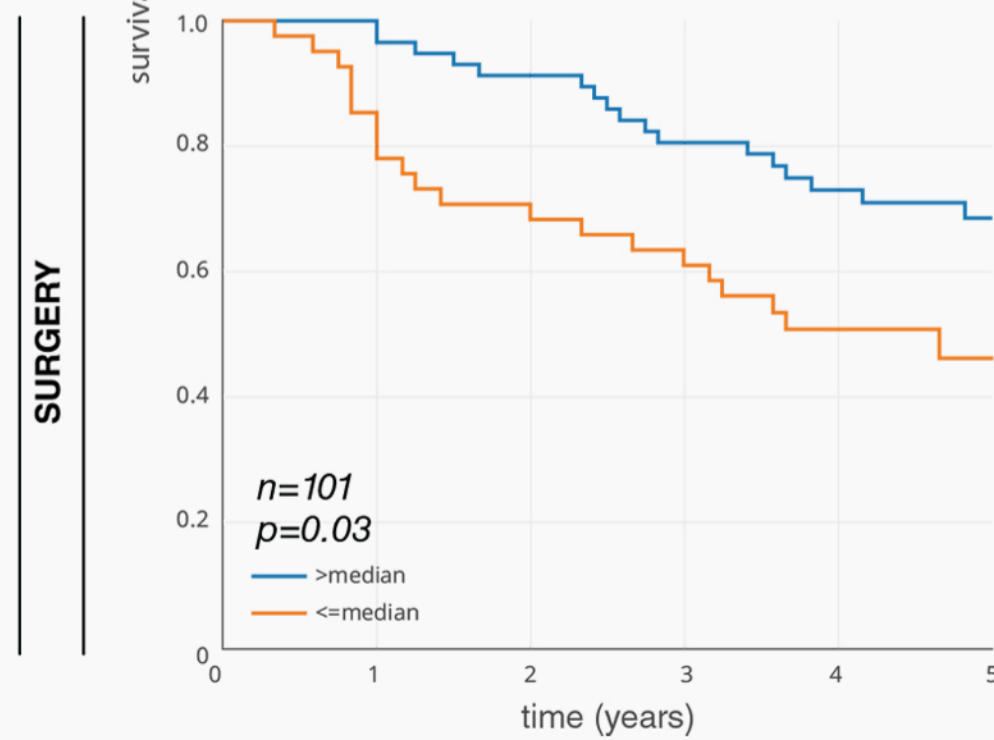
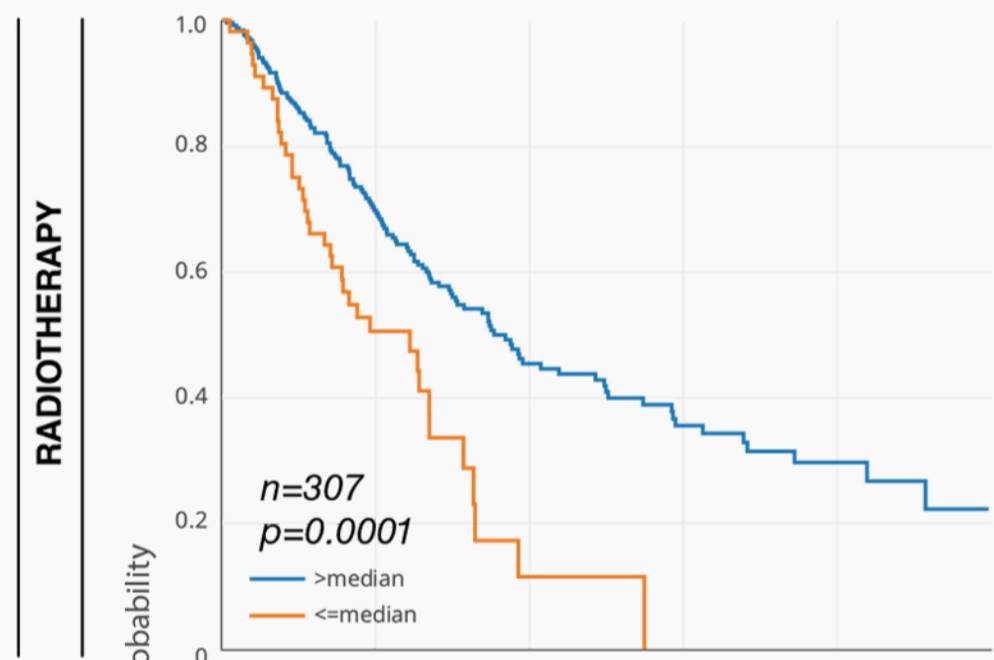
Deep Learning for Automated Quantification of Tumor Phenotypes

Ahmed Hosny

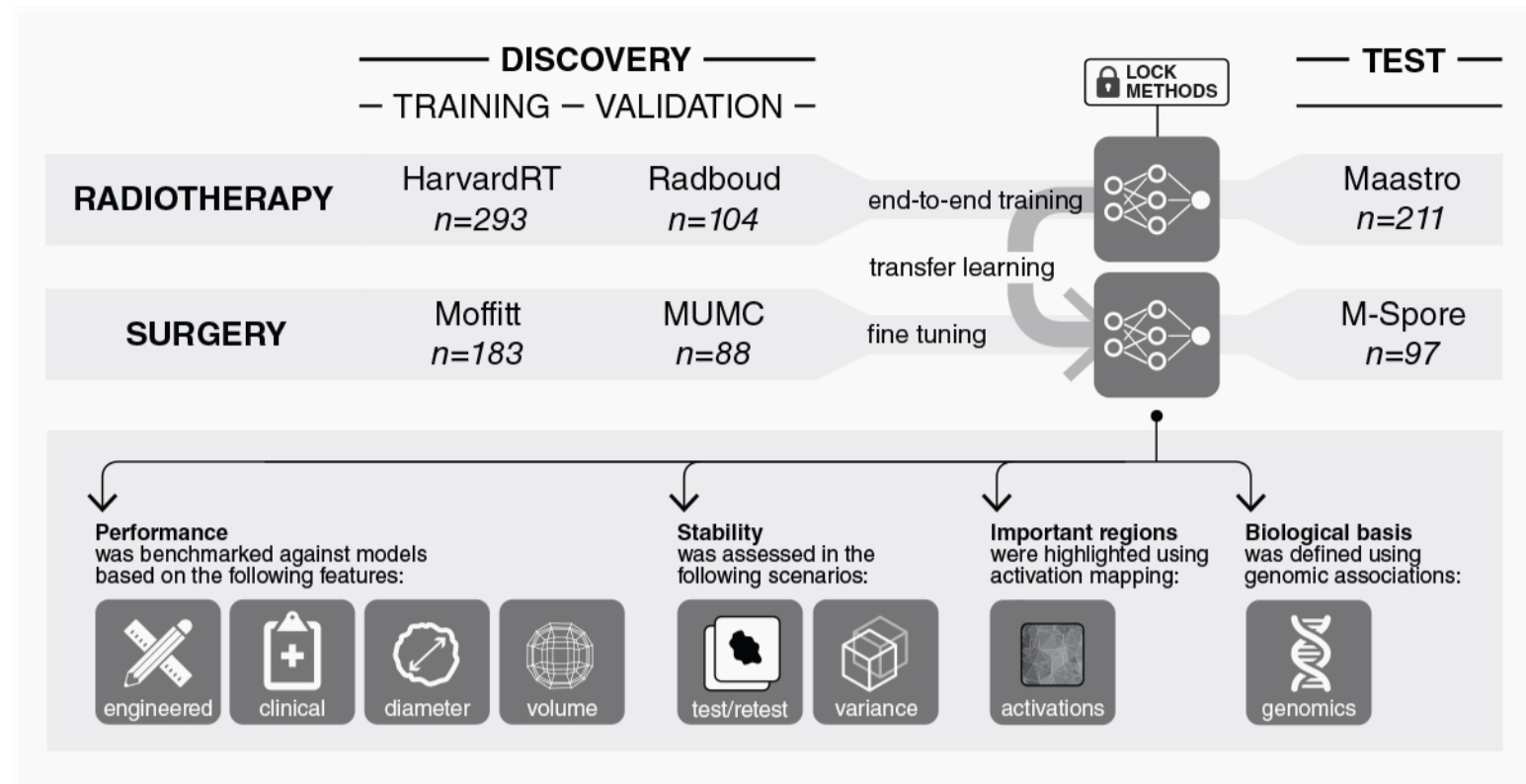
Computed Tomography II, 08/01/2018, 10:15AM - 12:15PM (10:55AM)

Prognostic power

Benchmarking deep learning networks against more traditional machine learning models based on engineered and clinical features for patients treated with radiotherapy or surgery. The benchmarking is based on predicting overall 2-year survival.



Analytical setup
 7 large datasets across 5 institutions with independent validation.



Activation mapping

Visual highlights of the most 'important' regions within the input image - those with the most contributions to maximizing the outputs of the final prediction layer.

