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Logistic Prediction on Prostate Cancer Status Using Imaging Data

New imaging techniques, such as CT and MRI, have become commonly available for diagnosis and management of prostate cancer. Accurately identifying prostate cancer is essential to guide the treatment therapy. With the pathological cancer status available in our study, we can build prediction models using imaging characteristics as predictors to predict prostate cancer status, and the model is expected to be used for future diagnosis of cancer using imaging tools. We show some preliminary results on the prediction of prostate cancer status using CT, T2WMR, and DCEMR features. The prediction accuracy is evaluated using AUC with a 10-fold cross-validation.