FEASIBILITY OF USING MACHINE LEARNING TECHNIQUES TO PREDICT THE RESULTS OF VMAT PATIENT-SPECIFIC QC MEASUREMENTS
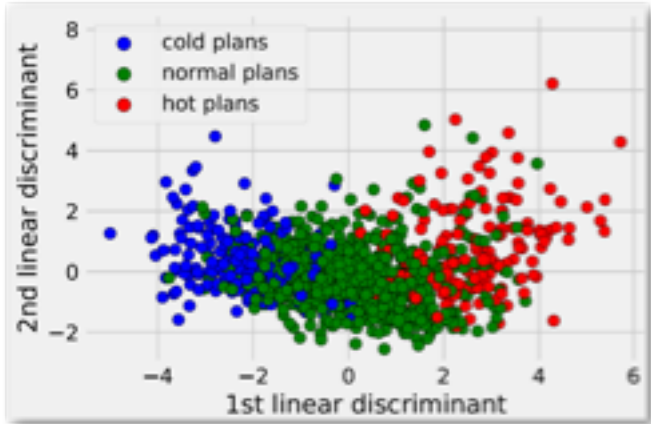
Dal Granville*, Justin Sutherland, Dan La Russa – The Ottawa Hospital – Ottawa, ON, Canada
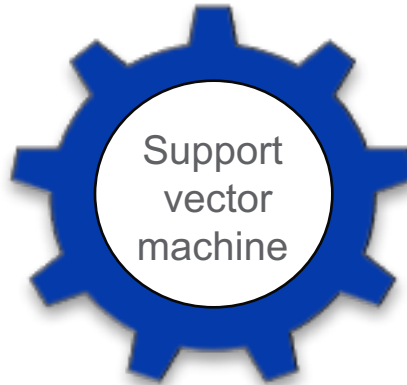
Feature Extraction → **Model Training** → **Model Performance**

Linac QC results & plan complexity metrics

Linear discriminant analysis
Clustering of hot & cold plans

Support vector machine

ROC Curve Analysis