

STANFORD UNIVERSITY
DEPARTMENT OF STATISTICS
DEPARTMENTAL SEMINAR

4:15 p.m., Tuesday, October 14, 2003
Sequoia Hall Room 200
(Cookies at 3:45 in 1st Floor Lounge)

Peter Hall
Australian National University

An Approach to Theory for Classification in High-Dimensional, Low Sample-Size Settings

Abstract:

We suggest a way of developing theory describing the error rates of different classifiers based on space- splitting planes. It elucidates both similarities and differences among classifiers such as those founded on the support-vector machine, distance-weighted discrimination, nearest-neighbour methods and the centroid rule.