

COLLOQUIUM

DEPARTMENT OF MATHEMATICS AND STATISTICS
OAKLAND UNIVERSITY
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APPLICATIONS OF ROBUST DISCRIMINANT COORDINATES

Abstract

Consider a one-way MANOVA layout of g samples of multivariate observations. Discriminant coordinates are used to obtain a graphical display which “best” separates the data into the groups. We discuss displays based on robust procedures. We discuss links to the graphical procedures SIR and SAVE. Links to discriminant analysis are also presented.

372 Science and Engineering Building
Thursday, October 18th, 2001
3:00 to 4:00 P.M.
(Refreshment at 2:30 to 3:00 P.M. in Room 368,
Science and Engineering Building)

About the speaker

Dr. Joseph W. McKean is a professor of statistics at Western Michigan University. He earned his Ph.D. in statistics from the Pennsylvania State University in 1975. After spending three years at University of Texas at Dallas as an assistant professor, he moved in 1978 to Western Michigan University, where he has been ever since. He co-authored two books entitled "Drug Interaction and Lethality Analysis" and "Nonparametrics and Robustness". He has published more than 50 articles in refereed journals and more than 15 papers in books and proceedings. He has been an associate editor of Journal of Statistical Computation and Simulation since 1984 and an associate editor of Journal of the American Statistical Association since 1990. He was a member of the editorial board of Communications in Statistics from 1988 to 1993. He is a fellow of the American Statistical Association, the Institute of Mathematical Statistics and the Biometrics Society.