Title: Workshop on Computational Techniques for Machine Learning with Emphasis on Management Sciences

Speaker: Prof. Ravindra Khattree, Oakland University

Area: DS

Date: 14.08.2025, Venue: P22 @ 9-1PM

Abstract:

Decision making is an essential part of effective management and with abundance of data available, decisions can be effectively made by modelling and concisely summarizing the data. Machine learning has become a recent approach for this purpose and various multivariate statistical tools have thus become an integral part of machine learning.

In this workshop, we will thus explore a few selected aspects of multivariate modelling and simulation. We will learn how to simulate various simple and complex situations and how to analyze and summarize large data sets. The topics covered are simulations, principal component analyses, unsupervised and supervised learning.

Speaker Profile:

Ravindra Khattree is a distinguished university professor of applied statistics in the Department of mathematics and Statistics and a founding co-director of Center for Data Science and Big Data Analytics at Oakland University, Rochester, Michigan. He is also a participating member of Center for Biomedical Research at the same university. He teaches a variety of graduate and undergraduate courses in statistics and data science.

An author of 125+ research papers, Ravindra Khattree is internationally known and well recognized for his contributions in the areas of statistical inference, multivariate analysis, experimental designs, biostatistics, statistical finance and industrial statistics. He is the coauthor of two books, both with D. N. Naik, titled *Applied Multivariate Statistics with SAS Software (Second Edition)* and *Multivariate Data Reduction and Discrimination with SAS Software* both co-published by SAS Press/Wiley. He has also co-edited, with C. R. Rao, the *Handbook of Statistics, Volume 22- Statistics in Industry,* published by North Holland, with Henry So and Arni Rao, the *Handbook of Statistics, Volume 53- Statistics in Industry and Government* and with D. N. Naik, the *Computational Methods in Biomedical Research* published by CRC/Chapman and Hall. He is a fellow of the American Statistical Association, an elected member of International Statistical Institute and a winner of Young Statistician Award from the International Indian Statistical Association. He was awarded the Oakland University's *Research Excellence Award* for his important and outstanding contributions to statistics and applied mathematics. He is a popular speaker at various conferences and meetings and has given numerous training courses around the world including those given as a Fulbright expert.

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