Data Mining

Abstract

We will explore knowledge discovery using artificial intelligence and machine learning. The topics will include unsupervised and supervised machine learning, predictive analytics, and market-basket analysis/association mining. We will explore clustering, decision tree, random forest, neural networks, and deep learning techniques. Audience will participate in an interactive design of an analytics problem, which will be solved by the instructor live using data mining tools. The demonstration will use retail, human resources and engineering datasets. After the workshop, students will write a case-study report on one of knowledge discovery processes conducted in class.

About the speaker:

Pawan Lingras is a Professor and Director of Computing and Data Analytics at Saint Mary's University. He is a recipient of University Excellence in Teaching Award, Faculty of Science Teaching Award, and President's Award for Excellence in Research. He has delivered more than 35 invited talks, authored more than 200 research papers, co-authored three textbooks, and co-edited two books and eight volumes of research papers. In last three years alone, he has attracted more than one-million dollars in funding for fundamental and industry research. His collaborators come from Canada, Chile, China, Germany, India, Poland, Tunisia, U.K. and USA.