Big Data Analytics with Hadoop

COT-6930

Instructor: Dr. Taghi M. Khoshgoftaar, Department of Computer and Electrical Engineering and Computer Science, Engineering East Rm. EE511, Telephone (561)297-3994

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TMIE: Thursday 4:00-6:50 PM

Office Hours: Tuesday 3:00-7:00 PM. Other times by appointment.

Text: *Data Mining: Practical Machine Learning Tools and Techniques*, by I.H. Witten and E. Frank (3rd Edition);

Selected articles and papers.

Prerequisites: Graduate-level status or permission of instructor

Objective of the course: Students will learn data mining and machine learning techniques for Big Data with Hadoop. Hands-on Big Data analysis using a high performance computing cluster. Case studies with an emphasis on real world applications will be presented.

Catalog Description: The study of topics in data mining and machine learning relating to Big Data. Big Data challenges such as high dimensionality, class imbalance, quality of data, etc. will be examined and addressed. Hands-on experience with Big Data analysis in Hadoop using a high performance computing cluster.

Grading:

Homework Assignments	50%
Term Project Report	35%
Term Project Class Presentation	15%