

# **Optimization with big data: Applications to supply chain management**

## Abstract:

With the increasingly wide availability of big data, our ability to process or solve complex optimization problems is limited even with the state-of-the-art solvers such as Cplex. In this talk we present SparcPlex, a new big data optimization platform that integrates the strengths of Cplex and the popular Apache Spark big data platform. We will describe the main features of our new platform and discuss two industrial case studies that motivated this research with two major Canadian logistics and retail companies.