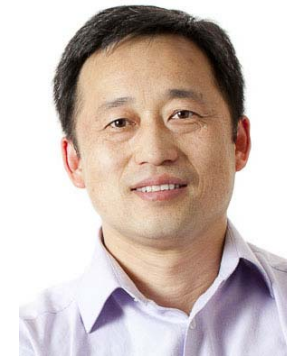




Séminaire du CIRRELT

Dr. Chun Wang

Concordia Institute for Information Systems Engineering
Université Concordia



ELECTRIC VEHICLE CHARGING SCHEDULING: CHALLENGES, APPROACHES AND OPPORTUNITIES

VENDREDI

27 AVRIL 2018
10 h 00

Local 1317
Pavillon Palasis-Prince
Université Laval

Ouvert à tous

Organisatrice:
Monia Rekik

Abstract: Compared with traditional scheduling problems in transportation research, electric vehicle (EV) charging scheduling poses additional challenges attributable to the significant customer involvement in service processes and the integration with power grids management. In EV charging scheduling, customer individual preferences and utilities are important determinant in constructing scheduling solutions with high resource utilization and customer satisfaction. In the mean time, intelligent integration with power grids enabled by smart grid technologies presents the opportunity to improve power grids efficiency and stability through coordinated EV charging scheduling. In this talk, I will discuss the challenges of developing EV charging scheduling systems from both customer satisfaction and power grids management perspectives. I will also survey important solution approaches proposed so far in the literature. Research opportunities in EV charging scheduling and its integration with other renewable energy applications will be discussed in detail as well.

Biography: Dr. Chun Wang is Associate Professor in Concordia Institute for Information Systems Engineering at Concordia University, Canada. His research interest lies on the interface between economic models, operations research and artificial intelligence. His is actively conducting research on multiagent systems, data-driven optimization and economic model based resource allocation with applications to healthcare management, smart grid and smart city environments.

