Séminaire ICI : Fen Zhou

24 Avril 2019, 11:00

Titre et orateur

Optimization of routing and resource allocation in communication networks.

Fen Zhou (ISEP, Paris)

Date et lieu

Mercredi 24 avril 2019, 11h.

ENSEA, salle 384

Abstract

This talk will first show my research activities related to routing and resource allocation in different communication networks (optical networks, wireless ad-hoc networks, and content delivery networks). In wireless sensor networks (WSNs), we studied the problem of maximizing the network lifetime for data gathering tree. To this end, we considered several data aggregation modes, and proposed an integer linear program to obtain the optimal data gathering tree in each mode respectively. Then, I will present our work on the service provisioning against disaster failures in optical datacenter networks, where we considered the survivability of both the service content and the provisioning path. To solve this problem efficiently, we proposed a column generation based method.

Bio

Since September 2018, Fen Zhou is working as an Associate Professor at the Institut Superieur d'Electronique de Paris (ISEP, on leave from Univ. Avignon). Before that, he has been an Associate Professor at the LIA lab of Avignon University, from 2012 to 2018. He obtained the HDR degree from Avignon University in 2018 and his PhD from INSA of Rennes in 2010. His research interests include routing, survivability/security and resource allocation in communication networks as well as routing optimization in intelligent transportation systems. Dr. Zhou is a Senior Member of IEEE. He has served as a symposium co-chair for IEEE ICNC'18 and WCSP'14, publicity co-chair for IEEE Wimob'15/19 and NetgCOOP'16, etc. He has also served on the program committees for several international conferences such as IEEE INFOCOM, IEEE GLOBECOM, IEEE ICC, and IEEE IWCMC. In 2016, he is awarded the French Research Bonus (PEDR).

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