Routing in Wireless and Internet Networks

Chairs: Jie Wu and Ivan Stojmenovic

Wireless, mobile and Internet networks are becoming more and more important in our daily life and are changing the way we communicate, acquire and dissminate information, and other chores. It is projected that in near future, there will be more than one billion wireless communication devices in use, and more than 200 million wireless telephone handsets will be purchases annually. Wireless and mobile computing provides so called "anytime, anywhere" computing. The number of Internet users is also on the rise, soon to reach nearly every family.

The efficiency of message routing is critical to the performance of computer and communication networks. The routing process involves moving data between the various hosts of a given network. When such a process involves more than one source and/or one destination, it is commonly referred to as a collective communication process. The complexity of routing is further complicated by host mobility in wireless networks (cellular, satellite and/or ad-hoc). It is clear that the conventional routing algorithms are not suitable in networks whose topology is dynamic, especially when real-time traffic has to be supported.

The goal of minitrack is to put together some of recent results on fault-tolerant routing in networks. Researchers and practitioners working in this area have an opportunity to discuss and expression their views on the current trends, challenges, and state-of-art solutions to design routing protocol in wireless and Internet Networks.

In response to the Call for Papers, we received a number of submissions from all over the world, leading to a truly international competition. Some of received manuscripts were out of the scope of the minitrack, 8 papers were selected fro presentation in the minitrack and for inclusion in the conference proceedings. The minitrack brings together an outstanding collection of papers on various topics of high relevance to the main theme of the workshop.

We would like to take this oppurtunity to thank authors of all submitted papers. Special thanks to Professor Hesham El-Rewini for his advice, support, and patience in working with us. Last but not the least, our sincere thanks are due to the attendees, without whom this workshop would not be a success.

We hope you will enjoy the program!