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Designing Robust and Adaptive Routing Strategies for Networks

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Thur, Sep. 21 5:00PM (MT)



MEETING Free and Open to the Public

Free and Open to the Public Pre-registration required Meeting ID: 986 6624 6778

Abstract:

Telecommunication networks are increasingly prevalent in our lives, from the Internet to the Internet of things to satellite networks to wireless networks and more. Ensuring that devices (such as a computer, robot, or sensor) are able to communicate with each other using these networks requires performing a balancing act of traffic and network resources, and solving a distributed search problem to identify a good path through the network from one device to another. The challenge is to find such paths while contending with time-varying traffic, potential changes in the network topology, and security and privacy risks. In this talk, I will overview how to design routing strategies that are able to meet this challenge and improve communication in a variety of computer networks, including mobile ad hoc networks, quantum key distribution networks. and the Internet.

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