



Review of Fundamentals of Wireless Ad Hoc Networking

Professor Anthony Ephremides

University of Maryland

2009 June 4 & 5 in University of Oulu, lecture room TS128

Outline:

Thursday, June 4

9:00 - 16:30

1. Definition and Description of Wireless Networks
2. Fundamental Performance Limits: Capacity, Throughput, Stable Throughput
3. Other Objective Functions and Optimal Design
4. The Back-Pressure Algorithm
5. The Cross-Layer Concept
6. The Scheduling Problem
7. Network Coding
8. Important Open Questions for Research and Design

17:00-18:00:

DLT Communication Society lecture: "Cooperation at the Network Level"

Friday, June 5

9:00-11:00

Questions/Answers/Discussion

Students will be required to submit a report summarizing the contents of the course; the reports will be reviewed by the course instructor

The number of credit points will be confirmed asap.

Registration latest by Friday 22 May under:

<https://www.webropol.com/P.aspx?id=323036&cid=54565323>

The course fee for participants who are not postgraduate students of the University of Oulu is 450 € (VAT 0%) including coffee and lunch on both course days.

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