Stochastic Network Optimization

SUGGESTED READING


- Queue stability (Chapter 2.1)
- Scheduling for stability, capacity regions (Chapter 2.3)
- Linear programs (Chapter 2.3, Chapter 3)
- Energy optimality (Chapter 3.2)
- Opportunistic scheduling (Chapter 2.3, Chapter 3, Chapter 4.6)
- Lyapunov drift and optimization (Chapter 4.1.0-4.1.2, 4.2, 4.3)
- Inequality constraints and virtual queues (Chapter 4.4)
- Drift-plus-penalty algorithm (Chapter 4.5)
- Performance and delay tradeoffs (Chapter 3.2, 4.5)
- Backpressure routing (Ex. 4.16, Chapter 5.2, 5.3)

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Please be aware that these references are for guidance in BASIC knowledge. Ph.D. candidates are screened on the basis of talent, course knowledge, independent reading and experience.

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