Communication Theory II (E6713) September 14, 2005
Columbia University, Fall 2005 Handout #1

Part 1: Network Coding

Instructor: Dr. Emina Soljanin

Web: `http://cm.bell-labs.com/cm/ms/who/emina`

Class Time and Place: Wednesday 6:50-9:20, 627 Md.

Prerequisites: E6718 Algebraic Coding Theory or equivalent.

Grading: project 30%.

Course Outline:

- network coding basics (models and examples)
- code design algorithms (randomized, deterministic, decentralized)
- complexity of algorithms and implementation