

Elec6861: Higher Layer Telecommunication Protocols

Roch Glitho, PhD

Associate Professor and Canada Research Chair

My URL - <http://users.encs.concordia.ca/~glitho/>

General information

URL:

http://users.encs.concordia.ca/~glitho/F17_ELEC6861.htm

Logistics:

- Instructor: Roch H. Glitho
Office: EV007-637, Tel: 1-514-8482424 ext. 5846, Email:
Glitho@ciise.concordia.ca
URL: <http://www.ece.concordia.ca/~glitho/>

Office hours: Thursday: 3 pm – 5 pm (or by appointment)

Note: You may also ask questions by email

General information

Scope

- **Part II: Background information**
 - Layered protocol architectures
 - Cross layered protocol architectures

- **Part II: Selected application layer protocol architectures**
 - Support Infrastructure for application layer: Domain Name System (DNS) and Peer-to-Peer (P2P) Overlays
 - Multimedia networking
 - World Wide Web (WWW)
 - Electronic Mail (E-Mail)

General information

Scope

- **Part III: Transport layer protocols**
 - TCP/UDP Basics and Socket Programming
 - Wireless Transmission Control Protocol (TCP)
 - An overview of the other transport layer protocols (e.g. Data Congestion Control Protocol – DCCP, Stream Control Transmission Protocol – SCTP, Real Time Transport Protocol – RTP)

General information on the course

Evaluation scheme:

Quiz #1: 30 % (Scheduled for week #7 – October 16)

- Quiz #2: 30 % (Scheduled for week #13 – November 27)

- Semester long project: 40% (Report and demos scheduled for Week #14 – December 11)

On The Semester Long Project

Roch Glitho, PhD

Associate Professor and Canada Research Chair

My URL - <http://users.encs.concordia.ca/~glitho/>

Semester Long Project

Very good programming skills are required

Semester Long Project

1. The project will be done in teams of 2. You have the responsibility of finding your teammate.
 - Teams of 1 might be exceptionally accepted (i.e. you might still be able to work alone on your project).
 - To be discussed with me
2. Every team should select either the standard project or a personalized project.
3. If a team selects the personalized project, the team should submit a one page proposal by September 30.

Semester Long Project

- The standard project will be on-line next week
- Validation (e.g. prototyping, simulation) is mandatory for all projects, i.e. surveys/literature review projects will not be accepted
- All projects should be closely related to higher layer telecommunication protocols

The End

