



ENCS – 691 K (General Information)

Roch Glitho, PhD

Professor and Ericsson/ENCQOR Research Chair

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

General Information



Logistics

Lectures (In-Person)

Time: Thursday, 17h45 – 20h30

Room: MB 3.255

Moodle (Check your Concordia portal)

Lecturer: 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: TBD

Teaching assistant: Behshid Shayesteh



Topics

Cloud Computing Basics

Overview

Technologies on which cloud computing relies (e.g. SOA, Hypervisor virtualization, container virtualization, unikernel, serverless computing)

Cloud Layers

Infrastructure as a Service (layers, resource management, case studies)

Platform as a Service

More recent developments and related technologies

Machine Learning for Cloud Computing

Edge Computing

Network Function Virtualization



Evaluation

Evaluation scheme:

Mid-term: 30 % (Scheduled for week #7 – October 20)

- Final exam 30 % (Scheduled for week #13 – December 1)
- Semester long project: 40% (Report and demos scheduled for Week #14 – December 15)



On the Project

Two options

- Standard project (Proposed by lecturer):
Specification available on September 15
- Personalized project (Proposed by students)
1 page proposal
Submission deadline: October 6
Note: Thesis supervisor approval required for students in thesis options



Some Examples of Past Personalized Projects

1. Cloud Based Content Delivery Networks with AWS
2. The Hourglass scheme (encryption scheme in the cloud)
3. Automating Application Deployment in the Cloud
(Hypervisor level work)
4. Edge Based Phobia Treatment Application

-



The End

