



Seminar on
CLOUD-BASED MOBILE NETWORKING

CSM13181 (5 cr), Autumn 2017

Huber Flores

huber.flores@helsinki.fi

**HELSINGIN YLIOPISTO
HELSINGFORS UNIVERSITET
UNIVERSITY OF HELSINKI**

Helsinki, Finland.

Agenda

- Objectives
 - Course focus and learning outcomes
- Work plan
 - Learning methods, tools and study materials
- Grading
 - Deliverables

Objectives

- **Course focus:**
 - Cloud-based mobile networking?
 - Mobile computing + Cloud computing + Networking
- Part1: Concepts, tools and readings
- Part2: Analysis over a dataset collected in the wild.

Objectives

- Explore a particular topic in detail
- Work will be around a general idea
- Sharing and presenting results

Work plan

- Lectures
- Presentations

Work plan (in detail)

1. Case studies

- a) GitHub
- b) R
- c) Gnuplot

2. Readings: articles to read.

3. General idea to develop over a dataset

- a) Iterative process

Work plan

- Learning outcomes
 - Understand the convergence point of mobile, cloud and networking
 - Learn through a case study the benefits of cloud-aware approach for different components of the network, e.g., saving energy of end points.
 - Learn how to apply analytic techniques over a network dataset



Grading

- GitHub-based
- No exams

Work plan (target dataset)

user id	time	base station	traffic volume	app id
1885126	21145945	283408	1507	1636
1885126	21135216	283408	899	1636
1885126	21143426	283408	902	1636
1885126	21192946	283408	1438	1636
1885126	21193715	283408	981	1636
1885126	21195947	283408	2239	1636
1730599	21164431	521887	1236	1636
1730599	21164431	521887	11865	1636
1730599	21164432	521887	1480	1636
1537326	21013247	138215	1502	1636
1603775	21173552	303208	640	1636
1603775	21173552	303208	256	1636
1603775	21173552	303208	260	1636
1537326	21022517	138215	1503	1636
80020	21102919	512228	288	1636
80020	21102920	512228	288	1636
80020	21091417	512227	900	1636
80020	21085916	512227	288	1636
80020	21141416	43516	1015	1636

Assignment

- Send your GitHub user to huber.flores@helsinki.fi
- Get acquaintance with GitHub

Assignment

- 1st reading
 - Flores, Huber, et al. **"Mobile code offloading: from concept to practice and beyond."** *IEEE Communications Magazine* 53.3 (2015): 80-88.

QUESTIONS

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