

The windy road to a digital campus

Pierre Dillenbourg, EPFL

Digital \neq Virtual

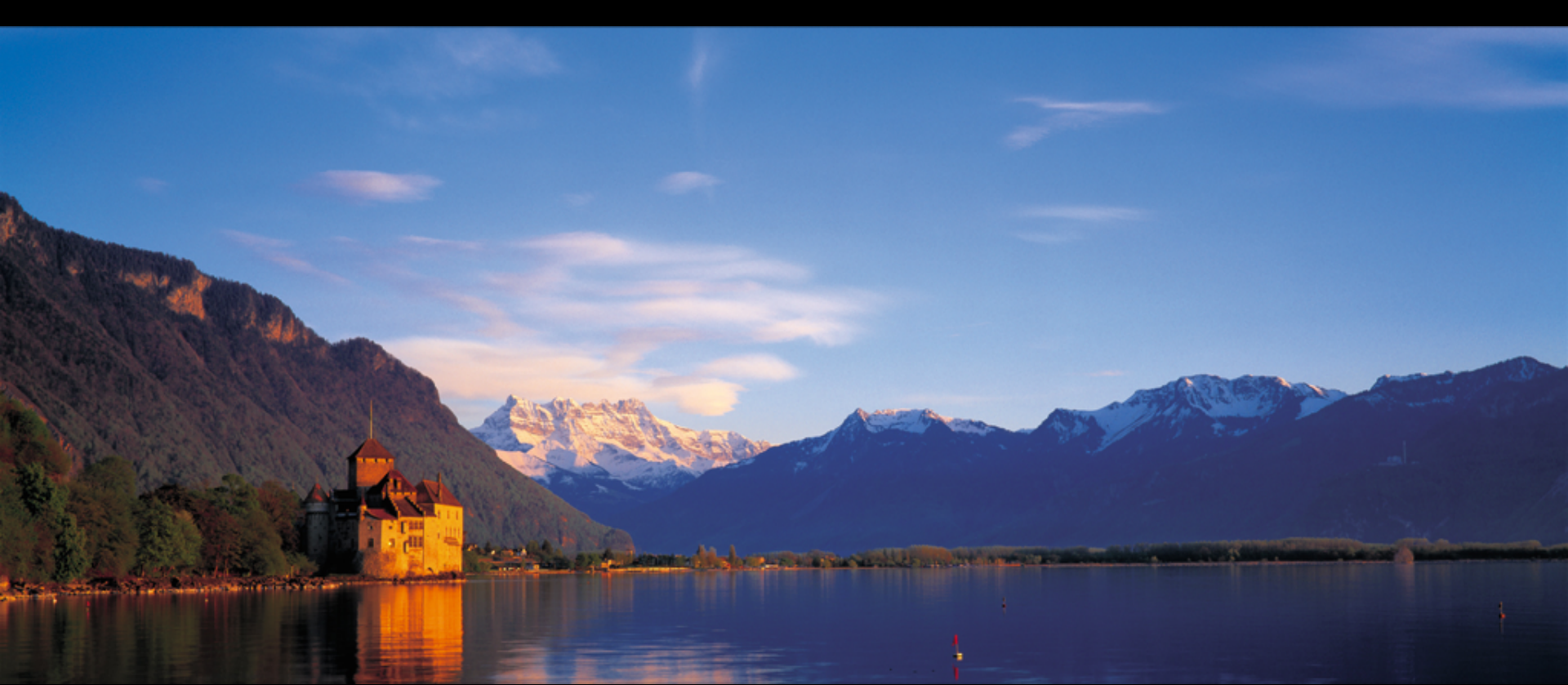




EPFL Digital Campus

EPFL Fitness Room



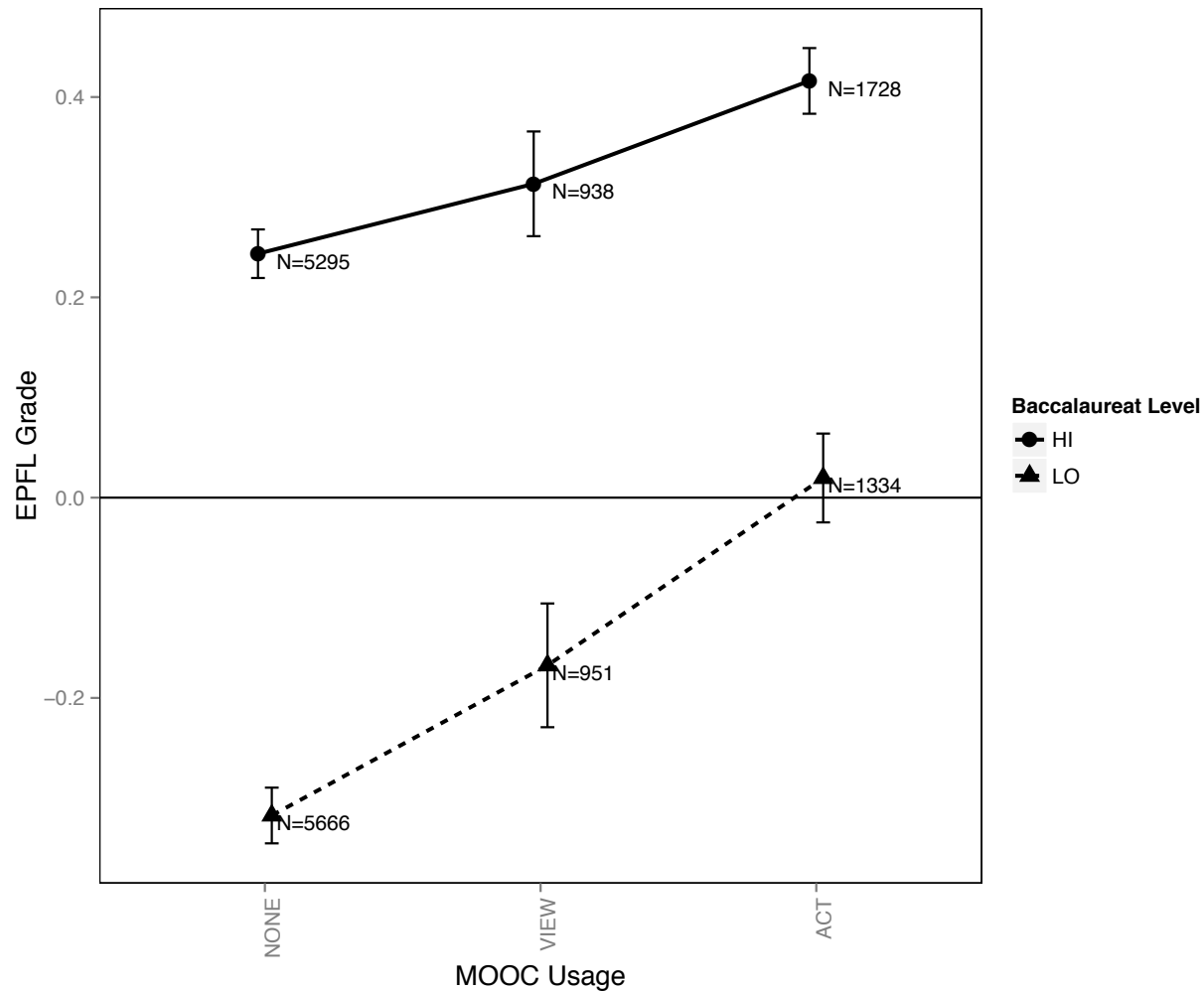


EPFL Garden

EPFL Campus⁺

EPFL MOOCs: 1'815'471 , 97'510

Suggestion # 1
Out + On Campus



Suggestion # 2

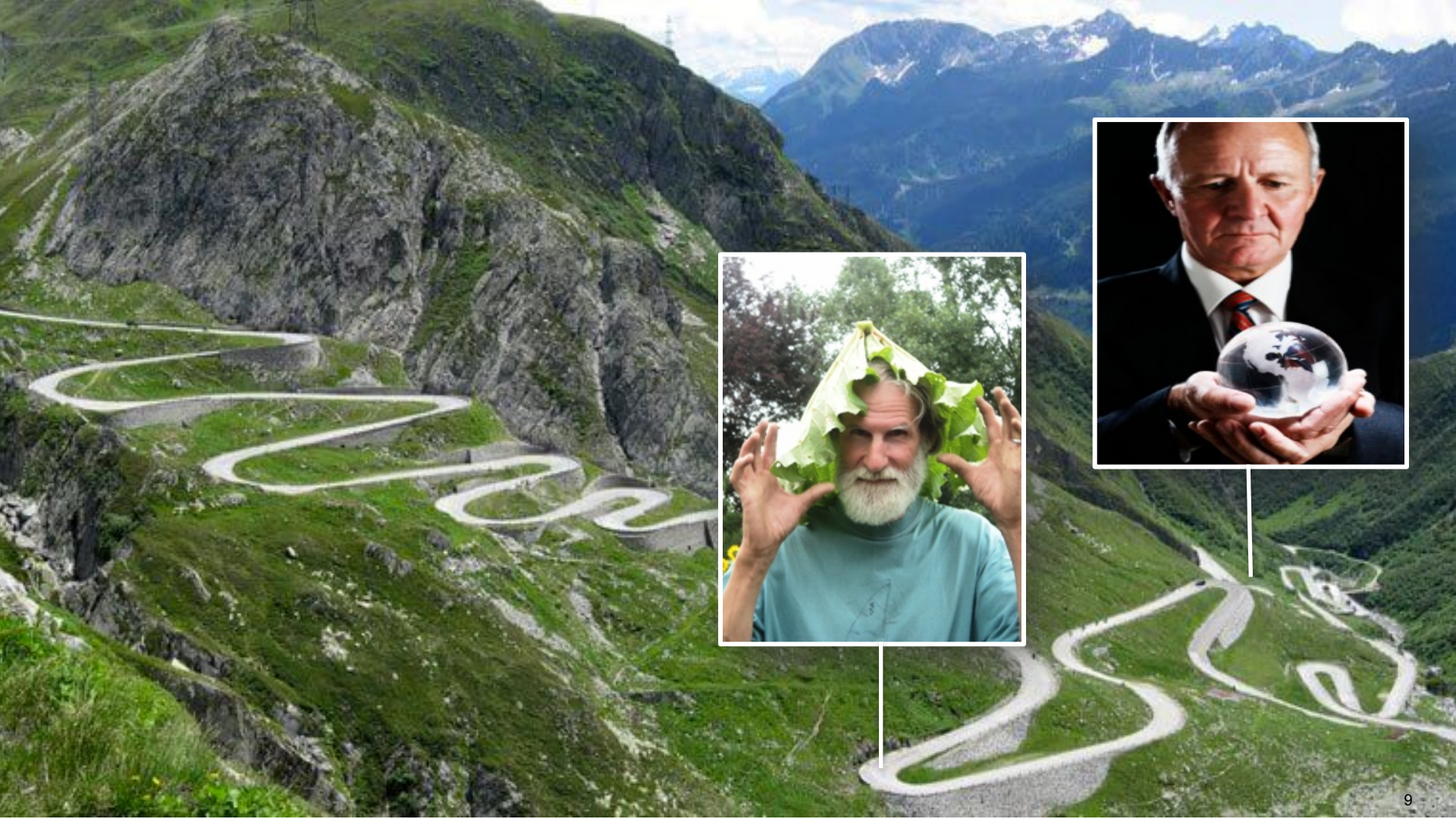
The flipped classroom ?

Yes, but there are diverse on-campus uses



Best Teaching Award – 2015

Jamila Sam & Jean-Cédric Chappelier



Suggestion # 3

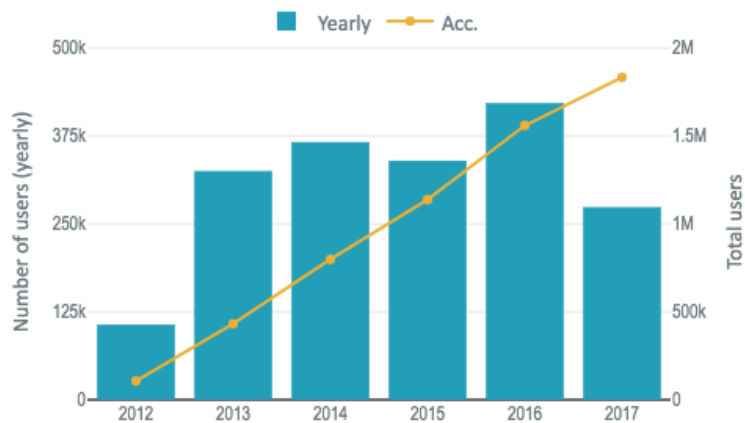
Don't let Gurus speak to your president !

Because they promise miracles
Nobody delivers miracles.

Suggestion # 4

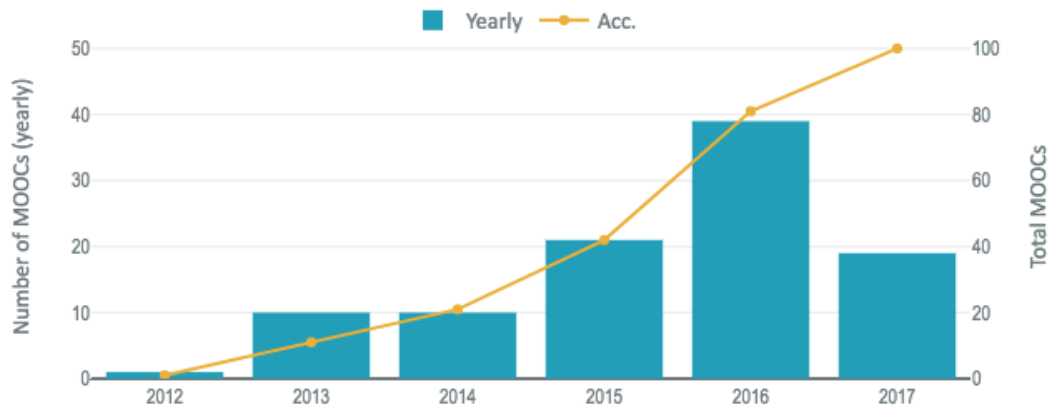
The hype is over, sustain the pace

Number of registrations per year



1'815'471 Registrations
97'510 Passed

MOOCs launched each year



77 Courses Online
35 Courses In Preparation

[About this Specialization](#)[Courses](#)[Creators](#)[FAQ](#)

Functional Programming in Scala Specialization

[Enroll](#)

5

Suggestion # 5

Find your USP

Program on a Higher Level

Write elegant functional code to analyze data that's big or small

About This Specialization

Discover how to write elegant code the first time it is run.

This Specialization provides a hands-on introduction to functional programming language, Scala. It begins from the basic building blocks of the language, showing how to use these blocks to solve small problems, before building up more complex concepts to architect larger functional programs. You'll see how the functional paradigm combines parallel and distributed programming, and through a series of hands on exercises and assignments, you'll learn how to analyze data sets small to large; from parallel architectures, to distributed programming on a cluster using Apache Spark. A final project will allow you to apply the skills you learned by building a large data-intensive application.

Created by:



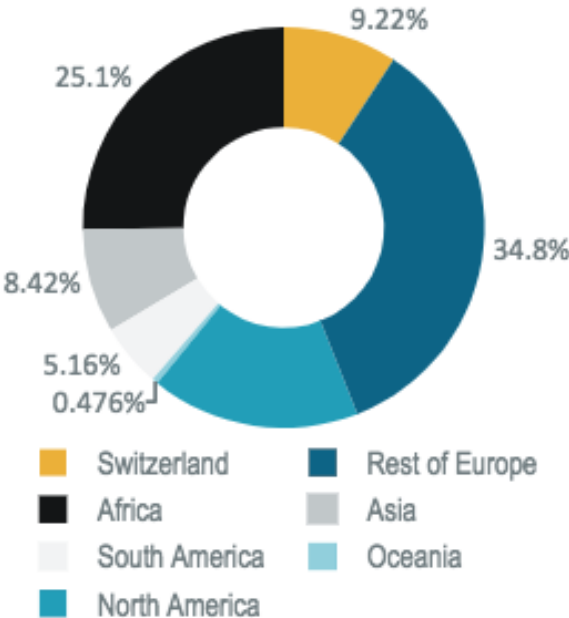
THE 50 BEST ONLINE COURSES OF ALL TIME
CLASS CENTRAL

646'000 Registrations !

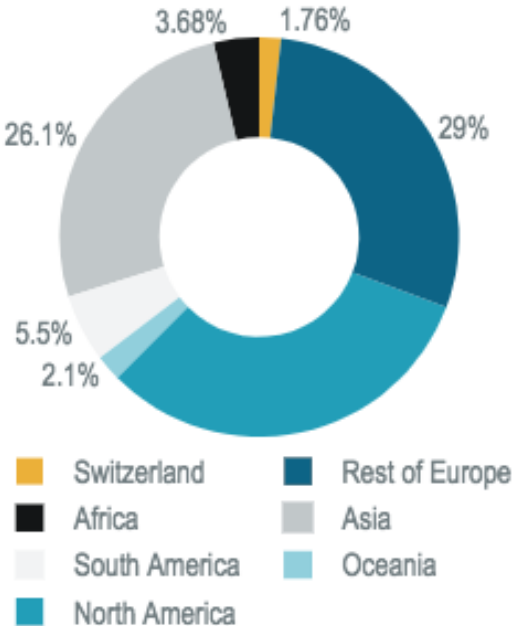
Suggestion # 6

Language Matters

Geographical distribution
for all French MOOCs combined



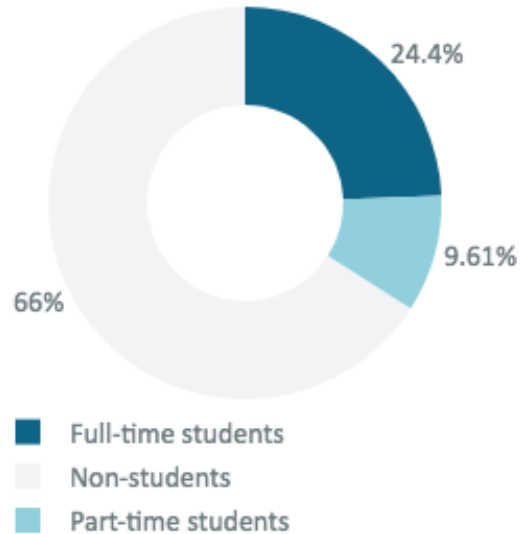
Geographical distribution
for all English MOOCs combined



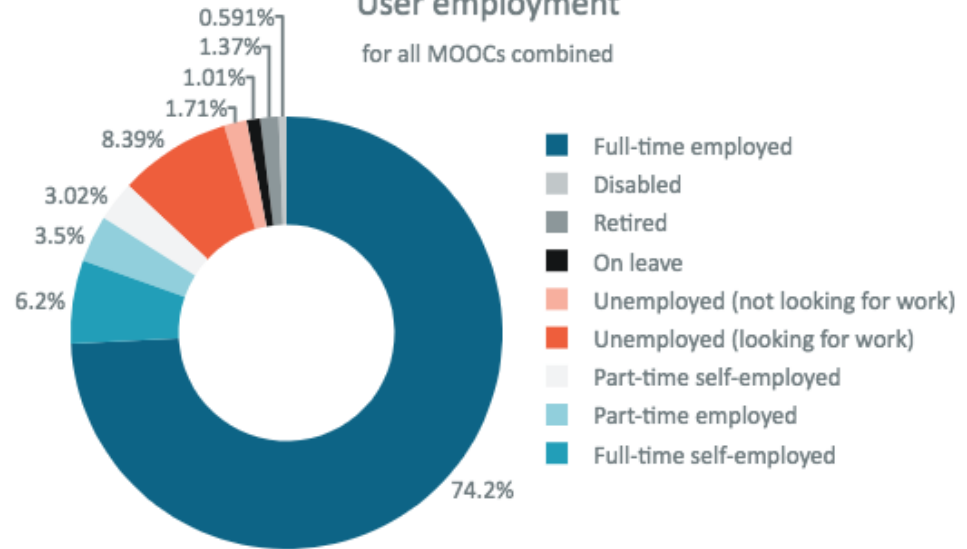
Suggestion # 7

Skills that are valuable on job market

Student status distribution
for all MOOCs combined



User employment
for all MOOCs combined



Certificate of Open Studies

Gestion et planification de la ville africaine



MOOCs
12 crédits

+



Travail
personnel
8 crédits

=



Certificat
COS EPFL
20 crédits

Suggestion # 8

Fight for certification



Villes africaines I:
Introduction à la planification urbaine

Jérôme Chenal



Partie I:
Introduction aux systèmes d'information géographique

Stéphane Joost, Marc Soutter, Fernand Kouamé, Amadou Sall



Villes africaines:
Quartiers précaires

Isagha Diagana, Jérôme Chenal



Villes africaines:
Mobilité et transports

Pape Sako, Jérôme Chenal



Villes africaines:
Environnement et enjeux de développement

N'Diékhon Yemadji, Jérôme Chenal

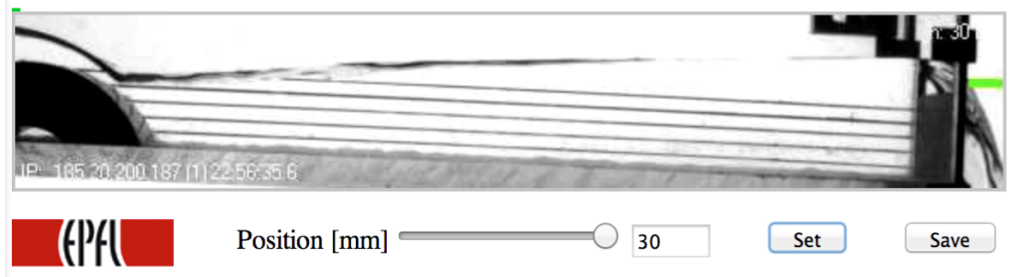
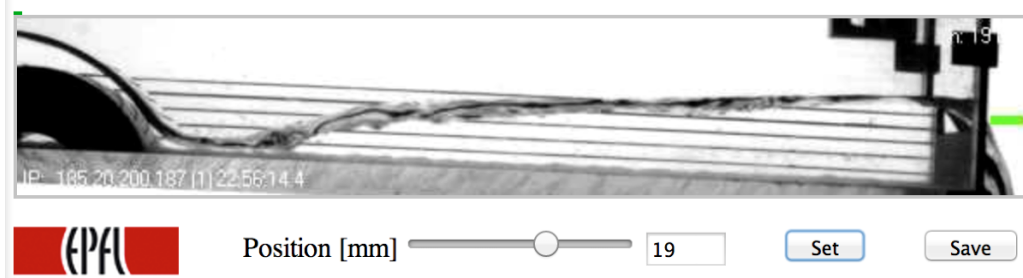
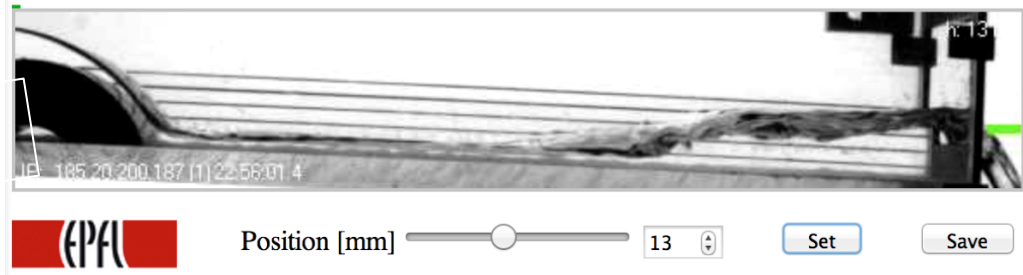


Eawag-Sandec et EPFL proposent ce cours conjointement avec des experts en assainissement de la Banque Mondiale et de l'OMS.

Planification et Design de Systèmes et Technologies d'Assainissement

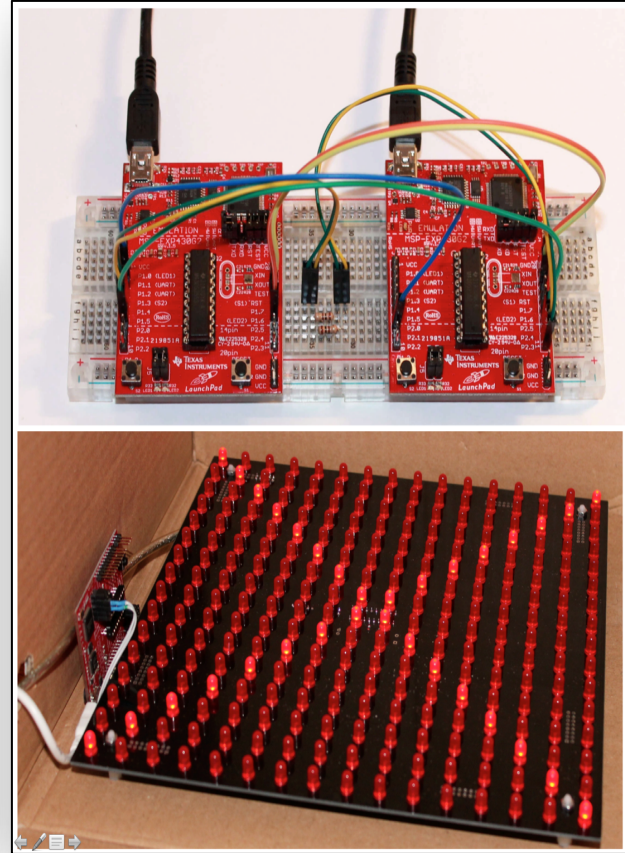
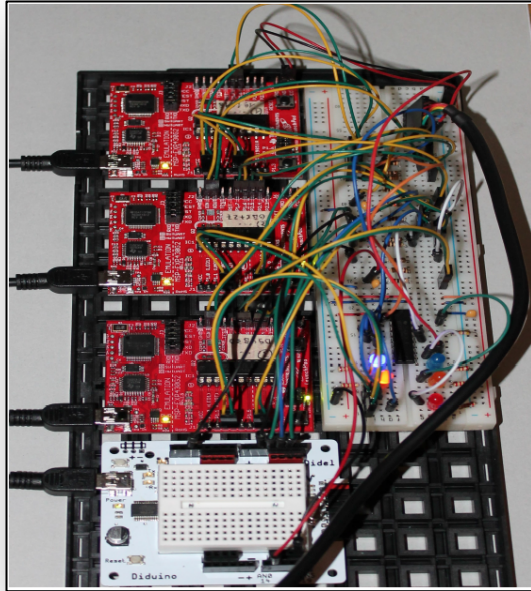
Suggestion # 9

Activities > Videos

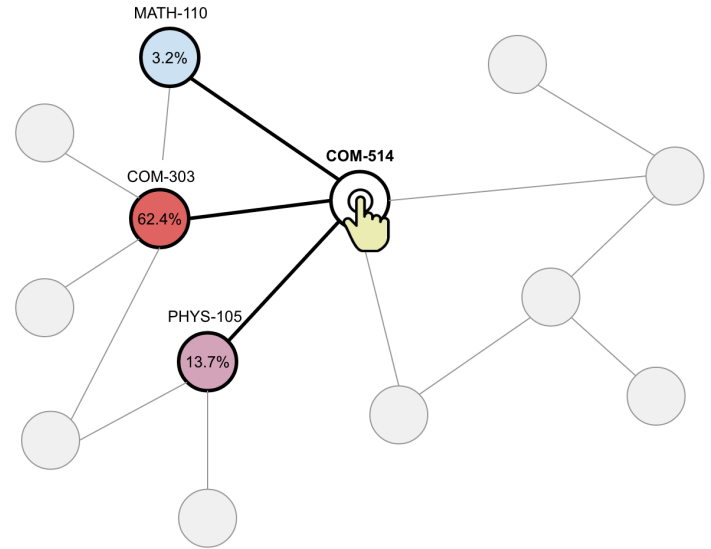
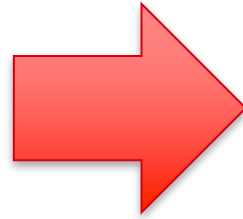
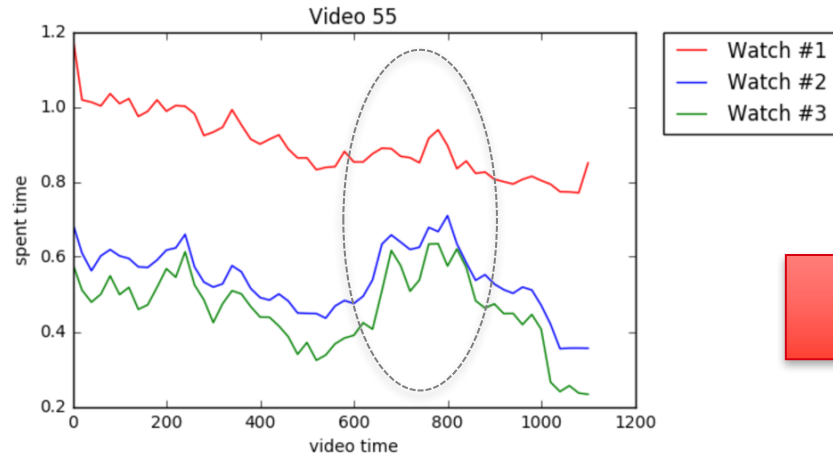


Suggestion # 10

Don't invent them !

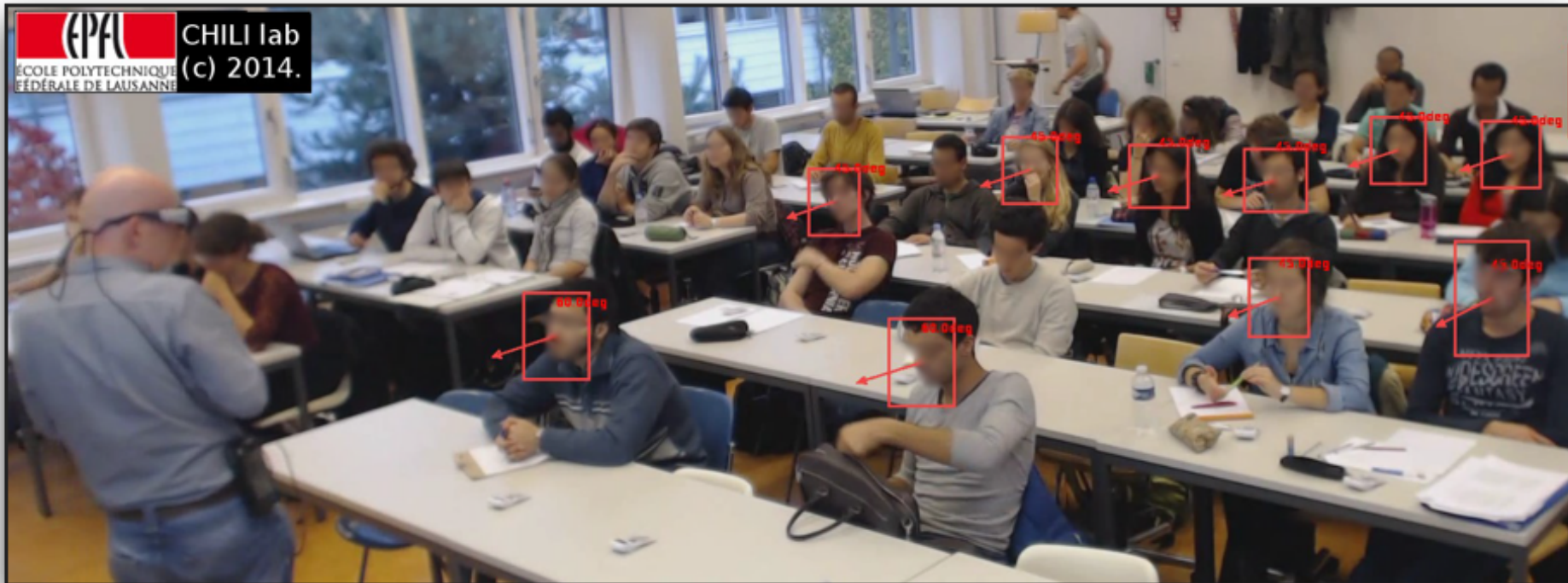


Suggestion # 11



DANYAR CHUMBALOV, VOLKAN CEVHER

Campus analytics



Kernel	Features	Score	Cohen's kappa
RBF($c=1.31$, $g=0.0211$)	Distance, Head travel norm., Num. still periods	61.86%	0.30
RBF($c=1.21$, $g=0.11$)	Period, Row, Head travel norm., Mean duration still	61.72%	0.32
RBF($c=1.11$, $g=0.061$)	Head travel norm., Mean duration still	60.42%	0.28
RBF($c=1.4$, $g=0.04$)	Period, Distance, Row, Mean duration still	59.23%	0.30

Suggestion # 12

If your president is not totally convinced,
don't even try !

(top-down push, bottom-up trigger)

EPFL MOOC strategy



- Gain worldwide visibility
- Renew/valorize teaching on campus
- Develop continuing education
- Generate revenues
- Research on learning
- Maintain relationship with alumni
- African french speaking countries

EPFL Digital Campus Strategy

- MOOCs, MOODLE, PRS,
- Vice-presidency IT
- Computational Thinking Class for all freshmen
- Center for Data Sciences (with ETHZ)
- Research on digital education, education robotics, etc.
- Entrepreneurship in digital education

EPFL
Innovation Park

digital**switzerland**



SWISS

EdTech Collider

FONDATION
HENRIMOSER

JACOBS
FOUNDATION
Our Promise to Youth



PocketCampus



EPFL Digital Education Ecosystem

NCCR

MOOCs

Collider

Comp
Think

Lake
of
Piaget

