



Marc Ruiz

Senior researcher

Grup de Comunicacions Òptiques (GCO) - Universitat Politècnica de Catalunya (UPC)

Bilateral Meetings

- Wednesday (10:00am - 12:00pm)
- Wednesday (12:00pm - 2:00pm)
- Wednesday (2:00pm - 4:00pm)
- Wednesday (4:00pm - 6:00pm)
- Thursday (10:00am - 12:00pm)
- Thursday (12:00pm - 2:00pm)
- Thursday (2:00pm - 4:00pm)
- Thursday (4:00pm - 6:00pm)

Description

The Universitat Politècnica de Catalunya · BarcelonaTech (UPC) is a public institution dedicated to higher education and research, specialised in the fields of engineering, architecture and science. The Optical Communications Group (GCO) at department of Signal Theory and communications (TSC) carries out research and education in the area of the theory, technology and engineering in optical fiber communications and their applications. Regarding the smart cities application context, we lead a research line focused at both service and network layers, including planning, routing, and resilience mechanisms in Big Data ready software defined environments and systems.

Organization Type

University

Organization Size

Yes, I need an Exhibition Visitor Pass Discount Code

Areas of Activities

SMART SOCIETY

1. Citizen services

TECHNOLOGY

1. Services integration
2. city platform
3. sensors
4. Internet of things cloud
5. big data

6. networks
7. data analysis
8. security

Offer & Request

Big Data for telecom cloud infrastructures supporting Smart Cities applications

We offer global solutions for planning, operating, and reconfiguring telecom cloud environments connecting a plethora of heterogeneous elements present in Smart Cities such as end user devices, sensors, datacenters, fog computing nodes, and metropolitan and core network nodes.

As a result of our recent research in heterogeneous telecom cloud systems and software defined environments (including SDN and NFV), applications and tools for holistic and in-operation system planning and reconfiguration, as well as advanced service provisioning and management are being developed and experimentally tested. In this regard, we fully meet with the requirements of the role of Big Data Infrastructure Provider (recently defined by ETSI) to provide Big Data analytics support such as data collection, data stream mining, data pre-processing, and machine learning techniques for forecasting and decision making.