

## OPEN SEMINAR SERIES

**Friday 12 June 2015**

**12:00 – 13:00**

L2 Room 7<sup>th</sup> floor,  
L. Sofou Bldg

### “Architecture design challenges of the EDUSAFE Supervision System”

By  
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#### ABSTRACT

Novocaptis Cognitive Systems & Robotics takes part in the 4year Marie Curie ITN EDUSAFE project which is under the coordination of CERN (<http://home.web.cern.ch/>).

The aim of the EDUSAFE project (<http://edusafe.web.cern.ch/edusafe/site.php>) is to technically advance and combine several technologies and integrate them into a personnel safety system to improve safety, maintain availability, reduce errors and decrease the time needed for scheduled or sudden maintenance interventions in extreme environments. The project focuses on research related to Virtual/Augmented Reality (VR/AR), Computer Vision (CV), Embedded Systems, and Data Acquisition (DAQ) systems.

I will present research related to the EDUSAFE Supervision System, which is a wearable embedded system designed to wirelessly transmit video, audio, and sensor data (worker's heart rate, environment's temperature and CO<sub>2</sub>/O<sub>2</sub> levels). The architecture design challenges of the EDUSAFE Supervision System arise from the design requirements which demand the system to be wearable-mobile, capable of real-time wireless data transmission (time-lags less than human interaction speed), and low power.

**The seminar series is open to all members of *staff and students* of CITY and to any *externals* that wish to attend.**



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