



Centro de Computação Gráfica (CCG)

<http://www.ccg.pt>

## Bilateral Meetings

- Wednesday 10:40 h - 13:00 h
- Wednesday 14:00 h - 18:00 h

### Description

With twenty three years of existence, **CCG - Centre for Computer Graphics** dedicates its activity to applied research and development, in the fields of computer graphics, information, communication and electronic technologies. It works at both the national and international level. One of its applied research domains is **UMC - Urban and Mobile Computing** that the technical and scientific capability to enroll and create innovative solutions, among other, for:

- Indoor positioning and navigation;
- Mobile application development;
- Urban sensing;
- Intelligent transportation systems (ITS);
- Ambient assisted living (AAL);
- Wireless sensor networks;
- Smart spaces.

These skills and competences have been applied and enriched through the participation in many research and industry projects, like for example in the field of Ambient Assisted Living, context awareness digital content distribution, real time location system (for hospitals), remote monitoring of chronic diseases, mobile solutions for tourism, etc.

### Organization Type

Research

### Organization Size

26-50

### Founding Year

1993

### Areas of Activities

**Medical devices**

**Information and Communication Technology**

**Other**

**Offer**

## **Networking, IoT, smart solutions**

The UMC - Urban and Mobile Computing domain of applied research has strong connections with the Ubicomp@UMinho research group from the University of Minho.

The UMC and the Ubicomp@UMinho team members have experience and scientific capability to develop projects in the areas of mobile computing, networking, sensors integration, public displays, IoT - Internet of Things, health solutions (support to telemedicine systems), indoor positioning, smart cities (including smart metering, smart parking, smart lighting, etc.)

**Keywords:** smart lighting smart parking smart metering smart cities telemedicine IoT Internet of Things mobile computing networking sensors integration

**Cooperation Offered**

1. Technical co-operation
2. Research co-operation

**Offer**

## **Smart sensing**

We offer expertise in the creation of advanced solutions with wireless sensors to acquire data from the environment or from a person (using health/medical devices like scales, blood pressure, oximeters, etc).

We have experience in development of complete solutions including client (mobile) applications to collect data from sensors and to interact with the end users and server side solution to store, integrate and analyse collected data.

**Keywords:** sensing IoT health devices integration

**Cooperation Offered**

1. Technical co-operation
2. Research co-operation

**Offer**

## **Indoor positioning**

Our group has several years of experience in the development of indoor positioning technologies successfully applied to industrial projects, to Ambient Assisted Living projects and also to academic research projects.

Remark the 1st and the 2nd place in an international competition for indoor positioning systems.

**Keywords:** indoor positioning indoor navigation fingerprinting indoor location

**Cooperation Offered**

1. Technical co-operation
2. Research co-operation

**Offer**

## **Smart boxes**

We can create advanced pervasive solutions to enable the interaction between caregiver/medical staff and the elderly or patients. The interaction can be done using different technologies and interfaces (including TV, smart phones, desktop computers or embedded devices) and can include the ability to automatically collect data from medical sensors.

**Keywords:** smart box   interaction   wireless devices

### **Cooperation Offered**

1. Technical co-operation
2. Research co-operation