



Associação CCG / ZGDV - Centro de Computação Gráfica

<http://www.ccg.pt/>



## **Bilateral Meetings**

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

### **Description**

CCG is an R&D center with 23 years of existence. Its activity is mainly focused on R&D for applications on the fields of computer graphics, information technologies, communication and electronics. It works at both the national and international level. One of its applied research labs is PIU (Perception, Interaction, and Usability) and deals with, among other topics, usability challenges in medical devices. PIU has experience in performing usability summative tests for the purpose of medical applications certification, but also develops research on fundamental issues for usability and safety in human-machine interaction in the medical domain (UI design, alarmistic, safety interlocks, use-error).

### **Organization Type**

### **Research**

### **Areas of Activities**

### **Medical devices**

### **Information and Communication Technology**

### **Hospital and Care equipment**

### **Offer**

## **HUMAN FACTORS AND DESIGN**

We are open to collaborations on research related to human factors in the design of medical devices. We have been studying the relation between human factors and design and its contribution for the occurrence of use error in medical devices. This is an area of quite interest for our R&D group.

**Keywords:** Human Factors design use errors

### **Cooperation Offered**

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

**Offer**

## **Risk analysis and usability**

**Risk management (ISO 14971) coordinated with usability engineering process (IE/ISO 62366) throughout design of medical devices**

**Keywords: Risk Analysis   Medical devices   usability**

**Cooperation Offered**

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