

# Health

Diagnostic aid, treatment and monitoring



## Health

- Signal processing
- Medical signal processing algorithms: images and voice
- Software for helping diagnosis, (tele-)treatment and (tele-)assistance, Otolaryngology, Dermatology, Radiology, Oncology
- Functional Magnetic Resonance Scanning: Neuropsychology
- Games for therapy: Virtual and Augmented Reality, interaction with Wii device

## Magnetic resonance



Radiology  
Neurology

Patients with Migraines  
Children with Dyslexia

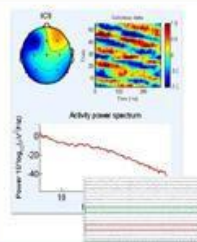
## Medical image processing



Dermatology  
Oncology

Patients with Melanoma and Cancer

## Electroencephalogram (EEG)



Neurophysiology  
Neurology

Patients with Epilepsy  
Neurodevelopmental disorders

## Signal monitoring



Cardiology  
Psychiatry

People with the need for monitoring

## Pathological voice processing



Otolaryngology

Laryngectomized people  
Vocal pathologies

## ICTs for Wellbeing

- **People with special needs:** Development for e-inclusion and autonomy in the home, at work and outdoors
- **Accessible education:** Adaptation of training contents for disabled people

## Computer Games for Health: Kinect



Rehabilitation  
Healthy life

Older People  
Medular patients  
Children with Dyslexia

## Computer Games for Health: Tablet



Cognitive therapy training for:  
Health, Food and Money

Older People  
People with intellectual disability

# Wellbeing

ICTs for wellbeing

## Services for mobile devices



Location and alarm systems with mobile devices

Older people  
Functional diversity

## Telerehabilitation



Physical  
Cognitive

Neurodegenerative diseases  
Medular diseases

## Robots



Rehabilitation  
Therapy

Children with disabilities  
Older People