

# INTERNATIONAL SUMMER SCHOOL BLENDED INTENSIVE PROGRAM

## SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

JULY 8TH, 2024

09.00 -  
9.10

### SMARTAAL - OPENING CEREMONY RECEPTION AND PRESENTATION OF PARTICIPANTS AND TRAINERS

Introduction to the Functioning and Activity Content  
Associated with Summer School

Octavian Postolache, Luísa Lima, Sancho Oliveira, Vítor Viegas  
Assistants: Mariana J. Rodrigues, Gonçalo Ribeiro, Stefan  
Postolache

09.10 -  
10.10

### THE PSYCHOLOGY OF AMBIENT | INVITED TALK

Prof. Luísa Lima

CIS-Iscte, Iscte-IUL, Portugal

10.10 -  
10.30

### COFFEE BREAK

10.30 -  
12.00

### AMBIENT ASSISTING LIVING EVERYWHERE: FROM SMART SENSORS TO AMBIENT ASSISTED LIVING

Prof. Octavian Postolache

Iscte-IUL and Instituto de Telecomunicações, Portugal

12.00 -  
13.30

### LUNCH BREAK

13.30 -  
15.30

### E-TEXTILE FOR WEARABLE SOLUTIONS

Prof. Helder Carvalho

Universidade do Minho, Portugal

# INTERNATIONAL SUMMER SCHOOL BLENDED INTENSIVE PROGRAM

## SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

JULY 9TH, 2024

09.30 -  
10.30

### PRINCIPLES AND APPLICATIONS OF NEAR- INFRARED SPECTROSCOPY

Prof. Francisco Ferrero & Prof. Ana Soldado  
University of Oviedo, Spain

10.30 -  
12.00

### PYTHON HANDS ON FOR AAL

Stefan Postolache  
Iscte-IUL and Instituto de Telecomunicações, Portugal

12.00 -  
13.30

### LUNCH BREAK

13.30 -  
15.00

### SMART AAL BY MY OWN: MY WORK AND MY TALK

Summer School participants

15.00 -  
15.15

### COFFEE BREAK

15.15 -  
16.45

### AAL FROM INDOOR TO OUTDOOR ENVIRONMENT: PART I – WEARABLE BIOMEDICAL DEVICES

Gonçalo Ribeiro  
Iscte-IUL and Instituto de Telecomunicações, Portugal

# INTERNATIONAL SUMMER SCHOOL BLENDED INTENSIVE PROGRAM

## SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

JULY 10TH, 2024

09.30 -  
10.30

### **THERMOGRAPHY FOR AAL**

Prof. Joaquim Mendes

Faculdade de Engenharia, Universidade do Porto

10.30 -  
12.00

### **AAL FROM INDOOR TO OUTDOOR ENVIRONMENT: PART II – AIR QUALITY MONITORING**

Mariana Jacob Rodrigues

Iscte-IUL and Instituto de Telecomunicações, Portugal

12.00 –  
13.30

### **AAL FROM INDOOR TO OUTDOOR ENVIRONMENT : PART III -WATER AND SOIL QUALITY MONITORING**

Prof. Octavian Postolache

Iscte-IUL and Instituto de Telecomunicações, Portugal

13.30 -  
15.00

### **LUNCH BREAK AND ARRIVAL TO OUTDOOR MEASUREMENT SESSION**

15.00 -  
18.30

### **AAL IN OUTDOOR ENVIRONMENT: DEPLOYMENT AND VALIDATION OF THE DEVELOPED SYSTEMS**

Summer School Participants and Mentors

# INTERNATIONAL SUMMER SCHOOL BLENDED INTENSIVE PROGRAM

## SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

JULY 11TH, 2024

09.30 -  
10.30

### WEARABLE SMART SENSORS FOR AAL | INVITED TALK

Prof. Olfa Kanoun  
University of Chemnitz, Germany

10.30 -  
12.30

### DESIGN OF DIGITAL SOLUTIONS FOR THERAPY BASED ON EXTENDED REALITY, SERIOUS GAMES AND GAMIFICATION

Prof. Rui Madeira  
Instituto Politécnico de Setúbal, Nova, Portugal

12.30 -  
14.00

### LUNCH BREAK

14.00 -  
16.30

### CO-DESIGN FOR AAL & CO-DESIGN IN FABLAB

Prof. Alexandra Paio, Iscte-IUL, Portugal  
João Sousa, Vitruvius FabLab, Iscte-IUL

# INTERNATIONAL SUMMER SCHOOL BLENDED INTENSIVE PROGRAM

## SMART SYSTEMS FOR AMBIENT ASSISTED LIVING - **WORKSHOP**

JULY 12TH, 2024

10.00 –  
10.45

### **PROTECTING OUR PLANET: THE VITAL ROLE OF NONDESTRUCTIVE TESTING IN SUSTAINABILITY**

Prof. Helena Ramos

Instituto Superior Técnico, Universidade Lisboa,  
Portugal

10.45-  
11.30

### **IDENTIFYING SMART-METER DATA MINING-BASED ENERGY CONSUMPTION PATTERNS AND THEIR IMPACT ON THE POWER QUALITY IN THE LOW VOLTAGE ELECTRIC DISTRIBUTION GRIDS**

Prof. Gheorghe Grigoras

Technical University Gheorghe Asachi, Romania

11.30-  
12.15

### **THE NEXT FRONTIERS OF SMART MEDICAL DEVICES**

Prof. Iuliana Chiuchisan

University of Suceava, Romania

12.15-  
13.00

### **XOG TECHNIQUES IN ALL FOR DISABLED PEOPLE**

Dr. Alberto López Martínez

University of Oviedo and UNED, Spain

# INTERNATIONAL SUMMER SCHOOL BLENDED INTENSIVE PROGRAM

## SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

JULY 12TH, 2024

13.00 –  
14.30

**LUNCH BREAK**

14.30 –  
16.00

**CLOSING CERIMONY AND CERTIFICATE DELIVERY**

Octavian Postolache, Luísa Lima, Sancho Oliveira, Vítor Viegas

Assistants: Mariana J. Rodrigues, Gonçalo Ribeiro, Stefan Postolache