

INTERNATIONAL SUMMER SCHOOL SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

GENERAL CHAIR PROF. OCTAVIAN POSTOLACHE

ISCTE, LISBON, C1.03 - JUNE 23RD, 2025

09.30 - 9.40	SMARTAAL - OPENING CEREMONY RECEPTION Octavian Postolache, Mariana J. Rodrigues, Gonçalo Ribeiro, Stefan Postolache
09.40 - 10.10	PRESENTATION OF THE SUMMER SCHOOL PROGRAM Introduction to the Functioning and Activity Content Associated with Summer School. Presentation of the trainers and summer school participants
10.10 - 10.30	COFFEE BREAK
10.30 - 11.30	AMBIENT ASSISTING LIVING EVERYWHERE: FROM HEALTH STATUS TO ENVIRONMENT MONITORING Prof. Octavian Postolache Iscte-IUL and Instituto de Telecomunicações, Portugal
11.30 - 12.00	TOWARDS INTELLIGENT REHABILITATION AN IOT- BASED PERSONALIZED MONITORING SYSTEM WITH MULTIMODAL DATA FUSION Prof. Madina Mansurova Al-Farabi, Kazakh National University, Kazakhstan
12.00 - 12.30	REABILITY OF SMART DEVICES FOR EVALUATION OF HUMAN PHYSICAL EFFORT Prof. Grazia Iadarola, Polytechnic University of Marche, Italy
12.30 - 14.00	LUNCH BREAK
14.00 - 16.30	E-TEXTILE FOR WEARABLE SOLUTIONS Prof. Helder Carvalho Universidade do Minho, Portugal

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INTERNATIONAL SUMMER SCHOOL SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

ISCTE, LISBON, C1.03 - JUNE 24TH, 2025

09.00 - 10.30	SMART AAL BY MY OWN: MY WORK AND MY IDEAS Summer School participants and Mentors: Round Table
10.30 - 10.45	COFFEE BREAK
10.45 - 11.30	XOG TECHNIQUES IN ALL FOR DISABLED PEOPLE Alberto López Martínez University of Oviedo and UNED, Spain
11.30 - 12.00	3D MODELING FOR DIGITAL TWINS Stefan Postolache Iscte-IUL and Instituto de Telecomunicações, Portugal
12.00 - 12.30	MACHINE LEARNING IN HEALTHCARE FOR ADVANCE DIAGNOSIS AND PERSONALIZED TREATMENT Talshyn Sarsembayeva Al-Farabi, Kazakh National University, Kazakhstan
12.30 - 14.00	LUNCH BREAK
14.00 - 15.30	DESIGN OF DIGITAL SOLUTIONS FOR THERAPY BASED ON EXTENDED REALITY, SERIOUS GAMES AND GAMIFICATION Rui Madeira Instituto Politécnico de Setúbal, Nova, Portugal

INTERNATIONAL SUMMER SCHOOL

SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

ISCTE, LISBON, C1.03 - JUNE 25TH, 2025

09.00 - 09.30	STRESS MONITORING STUDY FOR PEOPLE WORKING AT COMPUTERS Prof. Dan Milici, University of Suceava, Romania
09.30 - 11.00	BIOMEDICAL DEVICES FOR AAL-MONITORING AT HOME Gonçalo Ribeiro, Mariana J. Rodrigues, Raju Miah, Barbara Costa, João Monge, Octavian Postolache Iscte-IUL and Instituto de Telecomunicações, Portugal
11.00 - 13.30	CO-DESIGN FOR AAL & CO-DESIGN IN FABLAB Prof. Alexandra Paio, Iscte-IUL, Portugal Dr. João Pedro Sousa, VFABLAB, Iscte-IUL, Portugal Dr. João Boavida, VFABLAB, Iscte-IUL, Portugal
13.30 - 14.30	LUNCH BREAK
14.30 - 15.15	WEARABLE SMART SENSORS FOR AAL INVITED TALK Prof. Olfa Kanoun University of Chemnitz, Germany
15.15 - 16.00	AAL IN HEALTHCARE DIGITAL TRANSFORMATION ERA INVITED TALK Raul Martins Whymob - Portugal
18.00 - 20.20	LISBON TO PENHA GARCIA (BUS AND/OR TRAIN) 18:00 2:20 hrs 20:20 Lisbon (Oriente) Castelo Branco (Bus Station)

INTERNATIONAL SUMMER SCHOOL SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

PENHA GARCIA - JUNE 26TH, 2025

**09.00 -
09.45**

**AAL FROM INDOOR TO OUTDOOR ENVIRONMENT:
AIR QUALITY MONITORING**

Mariana Jacob Rodrigues

Iscte-IUL and Instituto de Telecomunicações, Portugal

**09.45 -
10.30**

**AAL FROM INDOOR TO OUTDOOR ENVIRONMENT :
WATER AND SOIL QUALITY MONITORING**

Prof. Octavian Postolache

Iscte-IUL and Instituto de Telecomunicações, Portugal

**10.30 -
11.00**

**CB AND ARRIVAL TO OUTDOOR MEASUREMENT
SESSION**

**11.00 -
12.30**

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

Summer School Participants and Mentors

**12.30 -
17.30**

LUNCH BREAK AND AFTERNOON ACTIVITIES

**17.30 -
19.30**

IEEE IMS COFFEE & TALK - ALL TOGETHER

Summer School Participants and Mentors



INTERNATIONAL SUMMER SCHOOL SMART SYSTEMS FOR AMBIENT ASSISTED LIVING *Preliminary Programme*

PENHA GARCIA - JUNE 27TH, 2025

09.00 - 09.45	REMOTE SENSING: ACOUSTIC ECOLOGY Prof. Octavian Postolache Iscte-IUL and Instituto de Telecomunicações, Portugal
09.45 - 10.45	REMOTE SENSING: APPLIED THERMOGRAPHY Prof. Joaquim Mendes Engineering Faculty, Universidade do Porto, Portugal
10.45 - 11.00	COFEE BREAK
11.00 - 12.00	REMOTE SENSING: ENVIRONMENT BY IMAGES Prof. Pedro Sebastião, Stefan Postolache, Gustavo Ferreira Iscte-IUL and Instituto de Telecomunicações, Portugal
12.00 - 16.30	LUNCH BREAK AND ARRIVAL TO OUTDOOR MEASUREMENT SESSION
16.30 - 17.30	REMOTE SENSING IN THE FIELD Summer School Participants and Mentors

20.00 -
23.00

IEEE IMS GALA DINNER
SUMMER SCHOOL OF IEEE I&M
75TH ANNIVERSARY CELEBRATION



SMART SYSTEMS FOR AMBIENT ASSISTED LIVING *IEEE WORKSHOP*



PENHA GARCIA - JUNE 28TH, 2025

	KEYNOTES
09.00 - 09.40	PRINCIPLES AND APPLICATIONS OF NEAR- INFRARED SPECTROSCOPY IN ENVIRONMENT MONITORING CONTEXT Prof. Francisco Ferrero & Prof. Ana Soldado, University of Oviedo, Spain
09.40 - 10.20	ELECTRICAL CIRCUITS IMPACTS ON THE ENVIRONMENT Prof. Mariana Milici, Stefan cel Mare University of Suceava, Romania
10.20 - 10.40	COFEE BREAK
10.40 - 12.20	ENVIRONMENT QUALITY AND AAL- PRESENTATIONS OF THE DEVELOPED WORK AT THE SUMMER SCHOOL Summer School Participants
12.20 - 13.15	PRESERVING ENVIRONMENT AND PRESERVING HEALTH - Country to Country Testimonies - ROUND TABLE - Moderators: P. Sebastiao, D. Milici, O. Postolache
13.15 - 13.30	CLOSING CERIMONY AND CERTIFICATE DELIVERY Octavian Postolache, Pedro Sebatião, Stefan Postolache
13.30	LUNCH
15.00	PENHA GARCIA ACTIVITIES AND BACK TO LISBON
