

SUMMER SCHOOL 2023

SMART SYSTEMS FOR AMBIENT ASSISTED LIVING

FRIDAY, JULY 7, 2023 | ISCTE-IUL

AUDITÓRIO CAIANO PEREIRA, BUILDING I

PROGRAM

09.00 - 9.10

SmartAAL - Summer School Opening Ceremony

Reception and Presentation of Participants and Trainers: Introduction to the Functioning and Activity Content Associated with Summer School

Octavian Postolache, Luísa Lima, Henrique Martins, Sancho Oliveira, Vítor Viegas

Assistants: Mariana J. Rodrigues, Gonçalo Ribeiro, Stefan Postolache, António Raimundo, João Monge

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 - 14.30

Ambient Assisted Living and Healthcare Digitalization | **Invited Talk**

Prof. Henrique Martins, Iscte-IUL, FCS-UBI, Portugal

14.30 - 16.00

E-textile for wearable solutions

Prof. Helder Carvalho, Universidade do Minho, Portugal

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MONDAY, JULY 10, 2023 | ISCTE-IUL

AUDITÓRIO CAIANO PEREIRA, BUILDING I

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10.00 - 11.00

Smart Everyday Living Technologies for Patients with Cancer | Invited Talk

Prof. Panagiotis Bamidis, Aristotle University of Thessaloniki, Greece

11.10 - 12.10

Python Hands On for AAL

Stefan Postolache, Iscte-IUL and Instituto de Telecomunicações, Portugal

12.10 - 13.10

Smart Systems Technologies for AAL today in my lab | Demo

Octavian Postolache, Mariana J. Rodrigues, Gonçalo Ribeiro, João Monge, Vítor Viegas

13.10 - 14.00

Lunch Break

14.00 - 15.30

XOG techniques in ALL for disabled people | Invited Talk

Dr. Alberto López Martínez, University of Oviedo and UNED, Spain

15.30 - 17.00

Smart AAL by my own: my work and my talk

Summer School participants

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TUESDAY, JULY 11, 2023 | ISCTE-IUL

AUDITÓRIO CAIANO PEREIRA, BUILDING I

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09.00 - 10.00

Wearable Smart Sensors for AAL | Invited Talk

Prof. Olfa Kanoun, University of Chemnitz, Germany

10.00 - 11.00

Thermography for AAL | Invited Talk

Prof. Joaquim Mendes, FEUP, University of Porto, Portugal

11.00 - 11.20

Coffee Break

11.20 - 12.20

Remote Sensing in the Lab: Thermography and Health Status Assessment

Octavian Postolache, Joaquim Mendes, Mariana J. Rodrigues, Gonçalo Ribeiro

12.20 - 13.30

Lunch Break

13.30 - 16.00

Co-design for AAL & Co-design in FabLab

Prof. Alexandra Paio, Iscte-IUL, Portugal

João Sousa, Vitruvius FabLab Iscte-IUL

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WEDNESDAY, JULY 12, 2023 | ISCTE-IUL

AUDITÓRIO CAIANO PEREIRA, BUILDING I

PROGRAM

09.00 - 10.20

Twin Digital for Healthcare | Invited Talk

Prof. Abdulmotaleb El Saddik, University of Ottawa, Canada

10.20 - 10.40

Coffee Break

10.40 - 12.10

AAL in the Outdoor Scenario: Preparing the Activities

Mariana J. Rodrigues, Stefan Postolache, Vítor Viegas, Octavian Postolache, José Dias Pereira

12.10 - 15.00

Lunch Break and Travel to the Measurement Site

15.00 - 18.00

Sensing and Instrumentation for Outdoor AAL - Experimental Session

Octavian Postolache, José Dias Pereira, Mariana J. Rodrigues, Gonçalo Ribeiro, Stefan Postolache

18.00 - 19.30

IEEE IMS Coffee Talks



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THURSDAY, JULY 13, 2023 | ISCTE-IUL

AUDITÓRIO CAIANO PEREIRA, BUILDING I

PROGRAM

09.00 - 10.00

Ambient Assisted Living: looking behind the scenes

Prof. Vítor Viegas, Instituto de Telecomunicações, Escola Naval, Portugal

10.00 - 10.50

Coffee Break

10.50 - 12.30

Programming Robots for AAL

Prof. Sancho Oliveira, Iscte-IUL and Instituto de Telecomunicações, Portugal

12.30 - 13.00

Building the intelligent systems based on IoT and ML/DL

Prof. Elinda Meçe, Polytechnic University of Tirana, Albania

13.00 - 14.00

Lunch Break

14.00 - 16.00

Mobile App Development in React Native for AAL

João Monge, Iscte-IUL and Instituto de Telecomunicações, Portugal

19.30-22.30

IEEE IMS Summer School Dinner



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FRIDAY, JULY 14, 2023 | ISCTE-IUL

AUDITÓRIO CAIANO PEREIRA, BUILDING I

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09.30 - 11.00

Machine Learning Hands-On: Applications

António Raimundo, Iscte-IUL and Instituto de Telecomunicações, Portugal

11.00 - 11.20

Coffee Break

11.20-13.00

LabVIEW for AAL- Hands-On

Prof. Octavian Postolache, Iscte-IUL and Instituto de Telecomunicações, Portugal

3rd Workshop: Smart Systems for AAL

14.00 - 14.30

Actuators with Intelligent Materials with Shape Memory used in Biomedicine and Ecology

Prof. Dan Milici, Stefan cel Mare University of Suceava, Romania



14.30 - 15.00

Compressed Sensing Methods for Physiological Sensors

Dr. Grazia Iadarola, Polytechnic University of Marche, Italy

15.00 - 15.30

AAL and Beyond: from Sensors and Instrumentation to AI

Prof. Octavian Postolache, Iscte-IUL and Instituto de Telecomunicações, Portugal

15.30 - 17.10

Smart AAL Workshop: My work, my presentation and my experience at the Summer School: 5 min presentations from the participants

17.10 - 17.30

Closing session and Certificate delivery