



8:30-9:00 **Reception**

9:00-9:15 **Opening session**

9:15-10:15 **Invited talk**

People Vs Robots in Space: Cooperation or Competition?

Invited speaker: Dr. Claude Nicollier
European Space Agency (ESA) Astronaut

Session I

10:20-10:40

SISTEMA DE LOCALIZAÇÃO UTILIZANDO ULTRA-SONS

José M. N. Vieira, Sérgio I. Lopes, Carlos A. C. Bastos, Pedro N. Fonseca
Dep. Electrónica e Telecomunicações da Universidade de Aveiro / IEETA

10:40-11:00

AUTOMATIC PARALLEL PARKING OF CAR-LIKE ROBOTS

Mário Florêncio, Pedro Agostinho, João Silva Sequeira
Instituto de Sistemas e Robótica / Instituto Superior Técnico

11:00-11:20

Coffee-break

Session II

11:20-11:40

COORDINATED TRANSPORTATION OF A LARGE OBJECT BY A TEAM OF TWO ROBOTS

Rui Soares, Estela Bicho
Esc. Sup. Tec. e Gestão de Felgueiras - Instituto Politecnico do Porto
Departamento Electrónica Industrial, Universidade do Minho

11:40-12:00

SELF-LOCALIZATION BASED ON KALMAN FILTER AND MONTE CARLO FUSION OF ODOMETRY AND VISUAL INFORMATION

David Cabecinhas, João Nascimento, João Ferreira, Paulo Rosa, Pedro Lima
Instituto de Sistemas e Robótica / Instituto Superior Técnico

12:00-12:20

ROBOT BEHAVIOR COORDINATION BASED ON FUZZY DECISION-MAKING

Nelson Ramos, Pedro U. Lima, João M.C. Sousa
Instituto de Sistemas e Robótica, Dept. Engenharia Mecânica, GCAR/IDMEC
Instituto Superior Técnico

12:20-12:40

REAL-TIME VISION SYSTEM

Hugo Silva, J. M. Almeida, L. Lima, A. Martins, E. P. Silva, A. Patacho.
Instituto Superior de Engenharia do Porto

12:40-13:00

VISION-BASED PEDESTRIAN DETECTION USING HAAR-LIKE FEATURES

Gonçalo Monteiro, Paulo Peixoto, Urbano Nunes
Instituto de Sistemas e Robótica / Universidade de Coimbra

13:00-14:30

Lunch

14:30-15:30 **Invited talk**

Honda Humanoid Robotics: A Bright Future for ASIMO

Invited speaker: Dr. Frank Joublin
Principal Scientist
Honda Research Institut Europe GmbH, Germany

Session III

15:30-15:50	<p>A SERVICE ROBOT FOR SAMPLES TRANSPORTATION AND DELIVERY Andre Moreira, Mafalda Antunes, Estela Bicho, Paulo Ventura Departamento Electrónica Industrial, Universidade do Minho Infineon Technologies, Vila do Conde</p>
15:50-16:10	<p>AGENT PLATFORM FOR ROBOT CONTROL IN REAL-TIME DYNAMIC ENVIRONMENTS Nuno Sousa, Eugénio Oliveira Faculdade de Engenharia da Universidade do Porto</p>
16:10-16:30	<p>MULTI-UAV INTEGRATION FOR COORDINATED MISSIONS Pedro Almeida, Ricardo Bencatel, Gil Gonçalves, João Sousa Faculdade de Engenharia da Universidade do Porto</p>
16:30-16:50	Coffee-break
Session IV	
16:50-17:10	<p>PARAMETER MEASUREMENT FOR SPEED AND TORQUE CONTROL OF RC SERVOMOTORS ON A SMALL-SIZE HUMANOID ROBOT Milton Ruas, Filipe Silva, Vítor Santos Dep. Electrónica e Telecomunicações, Dep. Engenharia Mecânica Universidade de Aveiro</p>
17:10-17:30	<p>ROAZ AUTONOMOUS SURFACE VEHICLE DESIGN AND IMPLEMENTATION Hugo Ferreira, A. Martins, A. Dias, C. Almeida, J. M. Almeida, E. P. Silva Instituto Superior de Engenharia do Porto</p>
17:30-17:50	<p>COMMUNICATION CHALLENGES RAISED BY OPEN CO-OPERATIVE TEAMS IN ROBOCUP Luís Mota, Luís Paulo Reis, Hans-Dieter Burkhard DCTI-Instituto Superior de Ciências do Trabalho e da Empresa, Faculdade de Engenharia da Universidade da Universidade do Porto, Institut f'ur Informatik, Humboldt Universität Berlin</p>
17:50-18:10	<p>REAL-TIME FRAMEWORK FOR GESTURE IMITATION IN HUMANOID ROBOTS Ricardo Marranita, Manuel Lopes, Alexandre Bernardino, José Santos-Victor Instituto de Sistemas e Robótica / Instituto Superior Técnico</p>
18:10-18:15	Closure