



Welcome and Registration - 10h

Open Ceremony

10:20-10:40

Professor Doutor Carlos Rodrigues, Presidente do IPVC Professora Doutora Mafalda Lopes, Diretora da ESTG/IPVC Professor Doutor Jorge Garcia, Coordenador do ADiT-lab - IPVC Professor Doutor José Lima, Vice-Coordenador do CeDRI - IPB Professor Doutor João Vilaça, Coordenador do 2Ai – IPCA Professor Doutor Constantino Martins, Coordenação do GECAD - IPP

Session 1: Human-Centered Artificial Intelligence

10:40-11:20 Chair: Pedro Morais, IPCA		
The Impact of Educational Chatbots Supported by Large		
Language Models on Mathematics Learning as Virtual	Pedro Arantes, Nuno Rodrigues and Sara Cruz	
Mentors		
Defining Requirements for Post-Stroke Hand Rehabilitation	Fernando Rocha and Fernando Veloso	
Devices	remande Nocha and remande velose	
The Journey to Achieve a True Personalized Health	António Faria, Patrick Murray, Pedro Morais and João Vilaça	
Assistant	Altionio I ana, I athor manay, I care merais and bodo vilaça	
Collaborative Fabric Design with AI and 3D Simulation	João Santos, Nuno Dinis, Luís Romero and Pedro Faria	
Session 2: Digital Security and Threat Modeling		
11:20-12:00 Chair: Pedro Pinto, IPP		
LLM-PentestBot: A RAG-Based Assistant for Penetration	Oumaima Ben Fadhel, Rui Fernandes and Nuno Lopes	
Testing Tasks	Oumaima beri Fadnei, Rui Fernandes and Nuno Lopes	
Security Threat Modeling for Identifying Vulnerabilities in a	Ruth Mendonça, Tiago Pedrosa, Gustavo Funchal and Frederico Barbosa	
Hate Speech Detection System Based on NLP	Natif Welldonga, Trago Fediosa, Gustavo Fullonal and Frederico Barbosa	
A Review on the Use of Large Language Models in Threat	Ana Batista, Pedro Pinto and Nuno Pereira	
Model Generation	Ana Dausta, Fedio Finto and Nuno Ferena	
Exploiting Trust: How Artificial Intelligence and Deepfakes	Sérgio Tiago Gomes Serra, Kely Gonzaga and Silvestre Malta	
Shape Social Engineering Attacks	Congre mage comes come, many comenge and emocretic manual	
Session 3: Digital Architectures and Intelligent Infrastructure		
12:00-12:40 Chair: Paula Rego, IPVC		
A FIWARE-Based Digital Twin Architecture for Expedite IIoT	Gonçalo Quesado and Sérgio Lopes	
Integration: The Adalberto Textile Solutions Use Case	Conçuio Quesado una Cergio Lopes	
Adoption of a FIWARE-Based Architecture to Estimate		
Material Consumption by Production Order Using Machine	Vítor Amorim and António Miguel Cruz	
Learning		
Towards Session-Aware Kubernetes: Initial Approach for AR	Simão Santos and Nuno Pereira	
Telepresence		
Initial Explorations in Industrial Video Summarization with	Rui Neto, Nuno Pereira and Paula Viana	
LLMs and MLLMs	Tali Neto, Nano i elella alla i aula vialla	

Lunch 12:45 - 14:00

Session SASYR Posters - 14:00 – 14:30	
Personalized Feedback Through a Digital Application:	
Supporting the Recovery of Unacquired Learning in Basic	
Education	José Mário Baptista and Duarte Duque
Bias & Accountability of Artificial Intelligence in Cancer	
Diagnosis	Nelson Faria, Sofia Campelos and Vitor Carvalho
Design and Development of a FIWARE-based Digital Twin for	
Predictive Maintenance in the Textile and Clothing Sector	Tiago Lemos, Ricardo Severino and Sérgio Lopes
Learning-Based Autonomous Handling of Multi-Articulated	Joaquin Dillen, João L. Vilaça, João Borges, John Cosgrove and Antonio
Conveyor Trolleys	Moreira
	Marcelo Arantes, Mariana Carvalho, Inês Coroas da Rocha,Ana Rita
Development process of a wearable device for monitoring	Freitas, José Soares, Marta Pinto, Pedro Morais, Demétrio Matos and Vítor
elderly people with dementia: State of development	Carvalho
Development of a Modular In-ear Wearable Device for	Ana Rita Freitas, José Soares, Inês Rocha, Mariana Carvalho, Marcelo
Dementia Monitoring: A Preliminary Approach	Arantes, Marta Pinto, Pedro Morais, Demétrio Matos and Vítor Carvalho
Deep Learning Methods for Left Atrial Appendage	
Segmentation in 3D TEE Images - A Comparative Study	Luís C. N. Barbosa, Siobhán Moane, João L. Vilaça and Pedro Morais
Autonomous Cyber Defense Agents	Safa Ouerchfani, Rui Fernandes and Nuno Lopes
Cross domain I2I translation for improved Surgical Action	Nuno Rodrigues, Helena Torres, Pedro Morais, Estevão Lima and João L.

Symposium of Applied Science for Young Researchers



Program



Thermal Monitoring of Aluminum Forging for Process	Joaquin Dillen, Luis Vilas Boas, Nuno Simões, João Faria, Rafael
Optimization	Fernandes, Bruno Silva, Inês Caetano, João Borges and Antonio Moreira
Assembly worker Digital Twin for workspace optimization	Ricardo Rodrigues, Jaime Fonseca and Antonio Moreira
Imitation Learning for Adaptive Grasping and Precise	Nuno Simões, Rafael Fernandes, Bruno Silva, Joaquin Dillen, João Faria, Luis Vilas-Boas, Ines Caetano, Luis Cardoso, Paulo Silva, João Borges an
Placement of Unstructured Metal Parts: A Case of Study	António Moreira
Trocar-Point for robotic surgery	Sérgio Pereira, Pedro Morais, Estevão Lima and João L.Vilaça
Robotic-Assisted 3D Scanning for Assesing the Arragement	Rafael Fernandes, Bruno Silva, Nuno Simões, Joaquim Dillen, João Faria,
of	Luis Vilas Boas, Ines Caetano, Luis Cardoso, Paula Silva, João Borges an
Goods on Pallets in Logistics Warehouse	António Moreira
Design and Construction of an Ultrasound-Compatible	Simão Valente, Nuno Rodrigues, Pedro Morais, Estevão Lima and João L.
Kidney Phantom with Dynamic Breathing Simulation	Vilaça
	Bruno Silva, Rafael Fernandes, Nuno Simões, Joaquin Dillen, João Faria,
Imitation Learning Strategy for enhanced pick and place	Luis Vilas-Boas, Inês Caetano, Luis Cardoso, Paulo Silva, João Borges and
handling of flexible/rigid objects	António Moreira
Enhanced Bladder and Prostate Segmentation in CT via	
Hybrid Contour-Distance Loss	Raul Ribeiro, Pedro Morais and João L. Vilaça
Intelligent Virtual Assistante for Industry 5.0	André Costa, Pedro Faria, Luis Romero and Nuno Dinis
Acoustic Voice Analysis: Building a Reference Database for	
Clinical Applications	Ana Machado, Joana Fernandes and João Teixeira
Session 4: Industrial Analytics and Intelligent Systems	
14:30 – 15:10 Chair: João Mendes, IPB	
Web-Based Interactive Dashboard with Machine Learning for	loão Vieira I uis Vilas Poos and Anténia Haraviana Jasua Maraira
Industrial Predictive Maintenance	João Vieira, Luis Vilas Boas and António Herculano Jesus Moreira
System for Detecting Rubber Imperfections in Extrusion	Paulo Sousa, Pedro Carneiro and José Henrique Brito
Lines	. aa.o ooasa, r caro oameno ana sose riennyae biilo
Increasing Warehouse Efficiency Using Quality Tools in	Zied Ben Cheikh, Artur Rossi, José Barbosa and Paulo Leitão
Factory Operations	Zioa Boir Citolian, ratai ricco, coco Barboca ana radio Estas
Python-Based Tool for Data Cleaning and Validation	Benazir Rostami, Inês Sena and Ana I. Pereira
Session 5: Sustainability, Regulation, and Energy Systems	
15:10 – 15:50 Chair: Carlos Abreu, IPVC	
Exploratory Data Analysis and Insights on Volatile Organic	Mahdia Ahmadi, Natalia Méndez Pérez, Helena Cristina Almeida da Cruz,
Compounds for Hazardous Waste Detection	Getúlio Igrejas, Pedro João Rodrigues and Rui Pedro Lopes
A Review of the Regulations Related to Digital Forensics of	Carla Abreu Teixeira, Patrícia Anjos Azevedo and Pedro Pinto
Mobile Devices	Cana Abrea Teixeria, Fairicia Arijos Azevedo and Fedro Finito
Assessing the Implementation of the EU 5G Toolbox	
Recommendations: A Pan-European Study on Cybersecurity	Diego Santos Alvarez, Silvestre Malta and Pedro Pinto
Measures in 5G Networks	
Performance Comparison of Torque Characteristics in Self-	Bruno Romeiro, Francisco Filho, Carlos Oliveira, Cicero Hildenberg and
Excited Induction Generators for Three-Phase and Single-	
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Phase Operation	Angela Ferreira
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Phase Operation Session SASYR Posters/Coffee Break - 16:00 – 16:30 Development of a Scalable Digital Sample Archive for the	
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Symposium of Applied Science for Young Researchers



Program



VOC Pattern Recognition in Waste Using Al-Enabled BME688	Felipe Izidorio, Mariam Jvarsheishvili, Getúlio Igrejas, Pedro Rodrigues and
Sensors	Rui Lopes
Deep Dive into Data Poisoning: Proposal and Methodology	Hugo Costa, Silvestre Malta and Ricardo Santos
An Artificial Intelligence Method for Large Forest Areas	Raphael D. Britto, João Mendes, Murillo Ferreira dos Santos, João P.
Analysis	Castro, José Lima and Ana I. Pereira
Preliminary anatomical studies on the reliability of	
electromyography signal collection methods	Caio Oliveira, Luiz Eduardo Luiz and João Paulo Teixeira
Hybrid Heuristic-Metaheuristic Strategies for Solving	
CVRPTW with OR-Tools	Arthur Brocco, Adriano Silva, Ana Pereia and Florbela Fernandes
Tchumy: Assistive Wearable Medical Technology for	
Children with Autism	Mariam Jvarsheishvili, Ahmed Gamal Ibrahim and Rui Pedro Lopes
Grapevine Health Diagnosis with Deep Learning	Vinícius Sasaki, João Mendes, Ana I. Pereira and José Lima

Awards and Closing Ceremony 16:30 – 17:00 | Chairs: Florbela Fernandes, Helena Torres, Pedro Pinto, Silvestre Malta



