

Detailed Program of the Joint

24th EANN / EAAAI 2023

&

19th AIAI 2023

Conferences

**School of Industrial, Computer Science
and Aerospace Engineering,
University of León, Spain**

**GPS coordinates of the Venue:
42.61396, -5.56127**

Wednesday 14/6/2023

9:00–17:00 Registration

10:00-10:15 Welcome Session

10:15-11:15

Session 1, Keynote 1: “Secure, Efficient and High Performance Computing: A Computer Architecture Perspective”

[Hybrid Session, Room 1 – Keynote 1](#)

Chair: Prof. Manuel Dominguez

Keynote Speaker: Professor Tamara Silbergleit Lehman

Assistant Professor at University of Colorado Boulder

11:45 - 13:15

Session 2, AIAI: RGR CLASS (Regression and Classification)

[Hybrid Session, Room 1](#)

Chair: Prof. Serafin Alonso

Decoding Customer Behaviour: Relevance of Web and Purchasing Behaviour in Predictive Response Modeling

Suncica Rogic, Ljiljana Kascelan

Forecasting of wind turbine synthetic signals based on nonlinear autoregressive networks

Cristian Blanco, J. Enrique Sierra-García, Matilde Santos

MPPT Control in an Offshore Wind Turbine Optimized with Genetic Algorithms and Unsupervised Neural Networks

Eduardo Muñoz-Palomeque, Jesús Enrique Sierra-García, Matilde Santos

Optimizing Feature Selection and Oversampling Using Metaheuristic Algorithms for Binary Fraud Detection Classification

Mariam M. Biltawi, Raneem Qaddoura, Hossam Faris

Predicting student performance with virtual resources interaction data

Alex Martínez-Martínez, Raul Montoliu, Jesús Aguiló Salinas, Inmaculada Remolar

11:45 - 13:15

Session 3, AIAI: IMG_CLASS MACH_VIS (IMAGE CLASSIFICATION / MACHINE VISION)

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

[Hybrid Session, Room 2](#)

Chair: Prof. Ilias Maglogiannis

A Difference Measuring Network for Few-shot Learning

Yu Wang, Junpeng Bao, Yanhua Li, Zhonghui Feng

Accelerated Monitoring of Powder Bed Fusion Additive Manufacturing via High-Throughput Imaging and Low-Latency Machine Learning

Ayyoub Ahar, Rob Heylen, Dries Verhees, Cyril Blanc, Abdellatif Bey-Temsamani

ML-based Prediction of carbon emissions for potato farms in Iran

Seyedeh Razieh Ehsani Amrei, Lakshmi Babu-Saheer, Cristina Luca

Rapid Thrombogenesis Prediction in Covid-19 patients using Machine Learning

Joonglyul Lee, Safaa Alwajidi, Mike Tree, Angelo Cristobal, Haitao Zhao

Utilizing AR and Hybrid Cloud-Edge Platforms for Improving Accessibility in Exhibition Areas

Dionysios Koulouris, Filimon Trastelis, Andreas Menychtas, Dimitrios Kosmopoulos, Ilias Maglogiannis

11:45 - 13:15

Session 4, Workshop: 5G-PINE I (5-G PINE 2023)

[Hybrid Session, Room 3](#)

Chair: Dr. Ioannis Chochliouros

OASEES: An Innovative Scope for a DAO-based Programmable Swarm Solution, for Decentralizing AI Applications close to Data Generation Locations

Ioannis P. Chochliouros, Michail-Alexandros Kourtis, George Xilouris, Wouter Tavernier, Enrique Areizaga Sanchez, Margarita Anastassova, Christian Christian Bolzmacher, Nikolay Tcholtchev, Antonello Corsi, Panagiotis Trakadas, Marta Millet, Christos Xenakis, Adnan Imeri, Francesco Bellesini, Paride D'Ostilio, Albertos Markakis, Ihsan Bal Engin, Antonis Litke, Lucrezia Maria Quarato, Diego Cugat, Georgios Gardikis, Charilaos Zarakovitis, Stephane Bouilland, Zaharias Zaharis, Christina Lessi, Dimitrios Arvanitosis, Anastasia S. Spiliopoulou

Putting Intelligence into Things: An Overview of Current Architectures

Maria Belesioti, Ioannis P. Chochliouros, Panagiotis Dimas, Manolis Sofianopoulos

Slicing mechanism deployment in 5G networks for robotic use cases

Christina C. Lessi, George Tsiouris, George Agapiou, Renxi Qiu, Andreas Gavrielides, Konstantinos C. Lessis, Ioannis P. Chochliouros

Implementing Network Applications for 5G-enabled robots through the 5G-ERA platform

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Andreas Gavrielides, Marios Sophocleous, Christina C. Lessi, George Agapiou, Jakub Špaňhel, Adrián Lendínez, Renxi Qiu, Dayou Li

Use Cases for Network Applications to Enable Connected Intelligence

Renxi Qiu, Dayou Li, Enjie Liu, Christina C. Lessi, George Agapiou, Andreas Gavrielides

11:45 - 13:15

Session 5, AIAI: DMN ML (DATA MINING / MACHINE LEARNING)

[Remote Session, Room 4](#)

Chair: Dr. Harris Partaouridis

A Temporal Metric-based Efficient Approach to Predict Citation Counts of Scientists

Saumya Kumar Dewangan, Shrutilipi Bhattacharjee, Ramya D. Shetty

Exploring the power of failed experiences in case-based reasoning for Improved Decision Making

Fateh Boulmaiz, Patrick Regnier, Stephane Ploix

Mind the gap: addressing incompleteness challenge in case-based reasoning applications

Fateh Boulmaiz, Patrick Reignier, Stephane Ploix

Sleep Disorder Classification Using Convolutional Neural Networks

Chun-Cheng PENG, Chu-Yun KOU

Tracking-by-Self Detection: A self-supervised framework for multiple animal tracking

CB Dev Narayan, Fayaz Rahman, Mohib Ullah, Faouzi Alaya Cheikh, Ali Shariq Imran, Christopher Coello, Oyvind Nordbo, Santhosh Kumar G, Madhu S. Nair

14:15-15:15

Session 6, Keynote 2: "Interpretable-by-design prototype-based deep learning"

[Hybrid Session, Room 1 – Keynote 2](#)

Chair: Prof. Geoffrey Holmes

Keynote Speaker: Professor Plamen Angelov

Lancaster University, UK

15:45 - 17:15

Session 7, EANN/EAAAI: GRA_NN DEEP (GRAPH NN / DEEP LEARNING)

[Hybrid Session, Room 1](#)

Chair: Prof. Antonio Morán

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

A Multi-Relationship Language Acquisition Model for Predicting Child Vocabulary Growth

Andrew Roxburgh, Floriana Grasso, Terry R Payne

Hierarchical prediction in incomplete submetering systems using a CNN

Serafin Alonso, Antonio Morán, Daniel Pérez, Miguel A. Prada, Juan J. Fuertes, Manuel Dominguez

Semi-automated System for Pothole Detection and Location

Favell Nuñez, Rodrigo Espinal, Gerardo Zavala, Josue Banegas

Streamlined Training of GCN for Node Classification with Automatic Loss Function and Optimizer Selection

Sanaullah, Shamini Koravuna, Ulrich Rückert, Thorsten Jungeblut

15:45 - 17:15

Session 8, EANN/EAAAI: DEEP NL (DEEP LEARNING – NATURAL LANGUAGE)

[Hybrid Session, Room 2](#)

Chair: Prof. Doina Logofatu

Classification of Time Signals Using Machine Learning Techniques

Ishfaq Ahmad Jadoon, Doina Logofatu, Mohammad Nahin Islam

LookMe: An Ever Evolving Artificial Intelligence Platform for Location Scouting in Greece

Eleftherios Trivizakis, Vasileios Aidonis, Vasileios C. Pezoulas, Yorgos Goletsis, Nikolaos Oikonomou, Ioannis Stefanis, Leoni Chondromatidou, Dimitrios I. Fotiadis, Manolis Tsiknakis, Kostas Marias

Object Detection for Functional Assessment Applications

Alessandro Melino-Carrero, Álvaro Nieva Suárez, Cristina Losada-Gutiérrez, Marta Marrón-Romera, Irene Guardiola Luna, Javier Baeza-Mas

Performance Analysis of Digit Recognizer using Various Machine Learning Algorithms

Lakshmi Alekya Chittem, Doina Logofatu, Sheikh Sharfuddin Mim

Towards Automatic Assessment of Quiet Standing Balance During the Execution of ADLs

Irene Guardiola-Luna, Leticia Monasterio-Expósito, Javier Macías-Guarasa, Álvaro Nieva-Suárez, Marina Murillo-Teruel, Jose Luis Martín-Sánchez, Sira Elena Palazuelos-Cagigas

15:45 - 17:15

Session 9, Special Session: “RESEARCH ON ADVANCED AI-BASED DATA ANNOTATION TOOLS”

[Hybrid Session, Room 3](#)

Chair: Mrs. Ester Sancho Lozano

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Organization by SIGMA COGNITION S.L.

“Introduction to HADA Project – Research on Advanced Data Annotation”

Ester Sancho – Project Manager & Research Lead at Sigma Cognition

“AI-based methods for text annotation processes – Active Learning”

Jorge Rico – Head of NLP Technologies at Sigma Cognition

“Challenges in Sound Event Detection and Annotation”

Prof. Luis Hernández Gómez at UPM

“Using Agnostic Models on Image and Text to Support Video Annotation”

Assistant Professor at UPM Juan Gutierrez Navarro

Prof. José Luis Blanco-Murillo at UPM.

15:45 - 17:15

Session 10, AIAI: CLASS (CLASSIFICATION)

[Remote Session, Room 4](#)

Chair: Dr. Abraham Yosipof

A methodology for emergency calls severity prediction: from pre-processing to BERT-based classifiers

Marianne Abi Kanaan, Jean-François Couchot, Christophe Guyeux, David Laiymani, Talar Atechian, Rony Darazi

Comparing vectorization techniques, supervised and unsupervised classification methods for scientific publication categorization in the UNESCO taxonomy.

Neil Villamizar, Jesús Wahrman, Minaya Villasana

Fusion of Learned Representations for Multimodal Sensor Data Classification

Lee B. Hinkle, Gentry Atkinson, Vangelis Metsis

Mining the Discussion of Monkeypox Misinformation on Twitter Using RoBERTa

Or Elroy, Dmitry Erokhin, Nadejda Komendantova, Abraham Yosipof

Multi-feature Transformer for Multiclass Cyberbullying Detection in Bangla

Zaman Wahid, Abdullah Al Imran

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

18:30 - 22:00 Social Activity.

Walking tour around city center & Welcome cocktail

Walking tour around city center:

Meeting point: In front of the San Isidoro

GPS coordinates: 42.60045, -5.57071

Starting time: 18:30

Expected duration: 1 hour and half.

Description of the activity: We will visit the most emblematic monuments and places in the old town (San Isidoro, cathedral, main square, Grano square and Casa Botines) accompanied by touristic guides who will explain it and review the history of León.

Welcome cocktail:

Restaurant: El Modernista (Casa Botines): <https://ezequielleon.com/el-modernista/>

GPS coordinates: 42.598434, -5.570988 (Rear entrance: Pilotos Regueral street)

Starting time: 20:00

Expected duration: 2 hours.

Description of the activity: the welcome cocktail includes a variety of “tapas” (some of them typical from León such as dry meat) and drinks (wine, beer, water, etc.) which will be served to the participants in an informal way.

The above social activity is complimentary and free for all registered conference participants. Please be sure to have your name badge/ QR code with you.

Accompanying persons can freely join the 1st part of the activity while a ticket is required for the welcome cocktail event.

More info can be found at the conference registration desk.

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Thursday 15/6/2023

9:00–15:30 Registration

9:30-10:30

Session 11, Keynote 3: “Intelligent mobile sensing for understanding human behaviour”

[Hybrid Session, Room 1 – Keynote 3](#)

Chair: Prof. Serafin Alonso

Keynote Speaker: Professor Oresti Baños Legrán

Tenured Professor of Computational Behaviour Modelling, Department of Computer Engineering, Automation and Robotics, Research Centre for Information and Communications Technology, University of Granada, Spain

11:00 - 12:30

Session 12, AIAI: ML NL (MACHINE LEARNING - NATURAL LANGUAGE)

[Hybrid Session, Room 1](#)

Chair: Prof. Konstantinos Delibasis

Are these descriptions referring to the same entity or just to similar ones?

Peter Kardos, Richárd Farkas

Efficient Approaches for the Discovery of Sensitive Information by Using Natural Language Processing Techniques

Kushal Shree Dhani, Benedikt Zundel, Doina Logofatu

Generation of optimum Frenet curves by genetic algorithms for AGVs

Eduardo Bayona, J. Enrique Sierra-Carcia, Matilde Santos

SASHA: Hyperparameter Optimization by Simulated Annealing and Successive Halving

Ron Triepels

The Effect of Tensor Rank on CNN's Performance

Eleftheria Vorgiazidou, Konstantinos Delibasis, Ilias Maglogiannis

11:00 - 12:30

Session 13, AIAI: IMG_CL BiOMED (IMAGE CLASSIFICATION / BIOMEDICAL MODELING)

[Hybrid Session, Room 2](#)

Chair: Prof. Chiara Contoli

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Image classification using class-agnostic object detection

Geoffrey Holmes, Eibe Frank, Dale Fletcher

Medical knowledge extraction from graph-based modeling of electronic health records

Athanasios Kallipolitis, Paris Gallos, Andreas Menychtas, Panayiotis Tsanakas, Ilias Maglogiannis

Predicting Alzheimer's Disease with AI and Brain Imaging Data

Chun-Cheng Peng, Guan-Wei Lin, Jian-Min Lin, Guan-Ting Chen, Wei-Chen Liu

Pre-trained Model Robustness against GAN-based Poisoning Attack in Medical Imaging Analysis

Pakpoom Singkorapoom, Suronapee Phoomvuthisarn

Semi-supervised Brain Tumor Segmentation using Diffusion Models

Ahmed AlShenoudy, Bertram Sabrowsky-Hirsch, Stefan Thumfart, Michael Giretzlehner, Erich Kobler

11:00 - 12:45

Session 14, Workshop: MHDW I (Mining Humanistic Data)

[Hybrid Session, Room 3](#)

Chair: Prof. Ioannis Karydis

A Framework for Co-Creation in Generic Educational Activities Using Swarming

Gregory Gasteratos, Eleni Vlachou, Panagiotis Gratsanis, Ioannis Karydis

Analyzing user reviews in the tourism & cultural domains - the case of the City of Athens, Greece

Tasos Papagiannis, George Ioannou, Konstantinos Michalakis, Georgios Alexandridis, George Caridakis

Ensemble Machine-Learning Models for Breast Cancer Identification

Elias Dritsas, Maria Trigka, Phivos Mylonas

Extracting Knowledge from Recombinations of SMILES Representations

Christos Didachos, Andreas Kanavos

Forecasting Stock Market Alternations using Social Media Sentiment Analysis and Regression Techniques

Christina Saravanos, Andreas Kanavos

Readability Classification with Wikipedia data and all-MiniLM embeddings

Elena Vergou, Ioanna Pagouni, Marios Nanos, Katia Lida Kermanidis

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

11:00 - 12:30

Session 15, Workshop: 5G-PINE II (5-G PINE 2023)

[Remote Session, Room 4](#)

Chair: Dr. Ioannis Chochliouros

Techno-economic Analysis Highlighting Aspects of 5G Network Deployments at Railway Environments

Ioanna Mesogiti, Eleni Theodoropoulou, Fotini Setaki, George Lyberopoulos, Konstantinos Stamatis, Panteleimon Konstantinos Chartsias, Nikos Makris, Paris Flegkas, Jesus Gutierrez, Christina Politi, Christos Tranoris, Markos Anastasopoulos, Anna Tzanakaki

Media Services in Dense, Static and Mobile Environments Leveraging Edge Deployments

Maria-Evgenia Xezonaki, Nikos Psaromanolakis, P. Konstantinos Chartsias, Konstantinos Stamatis, Dimitrios Kritharidis, Vasileios Theodorou, Christina Politi, Panagiotis Papaioannou, Christos Tranoris, Spyros Denazis, Ioanna Mesogiti, Eleni Theodoropoulou, Fotini Setaki, George Lyberopoulos, Nikos Makris, Paris Flegkas, Jesus Gutierrez Teran, Markos Anastassopoulos, Anna Tzanakaki

ETHER: Energy- and cost-efficient framework for seamless connectivity over the integrated terrestrial and non-terrestrial 6G networks

Lechosław Tomaszewski, Robert Kołakowski, Agapi Mesodiakaki, Kostantinos Ntontin, Angelos Antonopoulos, Nikolaos Pappas, Marco Fiore, Mohammadreza Mosahebfard, Simon Watts, Philip Harris, Chih-Kuang Lin, Ana Rita Santiago, Foris Lazarakis, Symeon Chatzinotas

6G-BRICKS: Developing a Modern Experimentation Facility for Validation, Testing and Showcasing of 6G Breakthrough Technologies and Devices

Ioannis P. Chochliouros, John Vardakas, Kostas Ramantas, Sofie Pollin, Sylvie Mayrargue, Adlen Ksentini, Walter Nitzold, Md Arifur Rahman, Jimmy O'Meara, Ashima Chawla, Dimitrios Kritharidis, Vasileios Theodorou, Shuaib Siddiqui, Francisco Ibañez, Georgios Gardikis, Dimitris Diagourtas, Loizos Christofi, Alain Mourad, Didier Nicholson, Anastasia S. Spiliopoulou, Christos Verikoukis

11:00 - 12:45

Session 16, Workshop: DAAI I (Defense Applications of AI - Defense Use Cases)

[Remote Session, Room 5](#)

Chair: Mr. Isidoros Monogioudis

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Co-Organized together with European Defense Agency

Isidoros Monogioudis – EDA,

EDA AI Action Plan

Sean Price – SPLUNK,

Building a Responsible Future: Key Lessons from Ethical AI Deployments

Bruno Carron – AIRBUS,

AI4DEF, addressing use cases ranging from Intelligence to collaborative combat, sets bases for an Ethical AI in defence

Shashank Govindaraj – SPACE APPS,

AI for C-IED operations via autonomous agents

Frank Beer, Markus Obexer – INFODAS,

Empowering Data-Centric Security through AI and Cross-Domain Solutions

11:00 - 12:30

Session 17, AIAI: DEEP (DEEP LEARNING)

[Remote Session, Room 6](#)

Chair: Prof. Ladislav Lenc

A Sharpe Ratio Based Reward Scheme in Deep Reinforcement Learning for Financial Trading

Georgios Rodinos, Paraskevi Nousi, Nikolaos Passalis, Anastasios Tefas

Algorithmic Forex Trading using Q-learning

Hasna Haifa Zahrah, Jimmy Tirtawangsa

DeNISE: Deep Networks for Improved Segmentation Edges

Sander Riisøen Jyhne, Jørgen Åsbu Jacobsen, Morten Goodwin, Per-Arne Andersen

Measuring the State-Observation-Gap in POMDPs: An Exploration of Observation Confidence and Weighting Algorithms

Yide Yu, Yan MA, Yue LIU, Dennis WONG, Kin LEI, José Vicente Egas-López

Towards Historical Map Analysis Using Deep Learning Techniques

Ladislav Lenc, Josef Baloun, Jiří Martínek, Pavel Kral

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

11:00 - 12:30

Session 18, EANN/EAAAI: DEEP DYN_NT (DEEP LEARNING / DYNAMIC NETWORKS)

[Remote Session, Room 7](#)

Chair: Prof. Antonios Kalampakas

A Machine Learning Approach for Seismic Vulnerability Ranking

Ioannis Karampinis, Lazaros Iliadis

Advanced Skin Cancer Detection Using Deep Learning

Mai Alzamel, Seba Alhejaili, Fatimah Alhumaidhi, Joud Alismail, Lama Almubarak, Halah Altammami, Costas Iliopoulos, Zara Lim

Discrimination of Attention Deficit Hyperactivity Disorder using Capsule Networks and LSTM Networks on fMRI Data

Arunav Dey, Jigyaa Singh, Manaswini Rathore, Roshni Govind, Vandana M Ladwani

Gaussian-based Approach for Out-of-Distribution Detection in Deep Learning

Thiago Carvalho, Marley Vellasco, José Franco Amaral

Optimal Traffic Flow Distributions on Dynamic Networks

Armen Bagdasaryan, Antonios Kalampakas, Mansoor Saburov, Stefanos Spartalis

User Equilibrium and System Optimality Conditions for Flow Distributions on Congested Networks

Antonios Kalampakas, Armen Bagdasaryan, Mansur Saburov, Stefanos Spartalis

13:45 - 15:15

Session 19, EANN/EAAAI: ML IND_ENG (MACHINE LEARNING IN INDUSTRY/ENGINEERING)

[Hybrid Session, Room 1](#)

Chair: Prof. Matilde Santos

Adaptive model for industrial systems using Echo State Networks

José Ramón Rodríguez-Ossorio, Antonio Morán, Juan J. Fuertes, Miguel A. Prada, Ignacio Díaz-Blanco, Manuel Dominguez

DNN-Driven Gradient-Based Shape Optimization in Fluid Mechanics

Konstantina G. Kovani, Marina G. Kontou, Varvara G. Asouti, Kyriakos C. Giannakoglou

Strain Prediction of a Bridge Deploying Autoregressive Models with ARIMA and Machine Learning Algorithms

Anastasios Panagiotis Psathas, Lazaros Iliadis, Antonios Papaleonidas

Verification of neural networks meets PLC code: An LHC cooling tower control system at CERN

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Ignacio D. Lopez-Miguel, Borja Fernández Adiego, Faiq Ghawash, Enrique Blanco Viñuela
Virtual flow meter for an industrial process
Raúl González-Herbón, Guzmán González-Mateos, Serafin Alonso, Miguel A. Prada, Juan J. Fuertes, Antonio Morán, Manuel Dominguez

13:45 - 15:15

Session 20, Workshop: VAA-CP-EB (Visual Analytics Approaches for Complex Problems in Engineering and Biomedicine)

[Hybrid Session, Room 2](#)

Chairs: Prof. Ignacio Díaz, Prof. José M. Enguita

An XAI approach to deep learning models in the detection of DCIS

Michele La Ferla

Conditioned fully convolutional denoising autoencoder for energy disaggregation

Diego García, Daniel Pérez, Panagiotis Papapetrou, Ignacio Díaz, Abel A. Cuadrado, José María Enguita, Ana González, Manuel Dominguez

Principal Component Modes of Reservoir Dynamics in Reservoir Computing

José María Enguita, Ignacio Díaz, Diego García, Abel Alberto Cuadrado, José Ramón Rodríguez

Visual analytics tools for the study of complex problems in engineering and biomedicine

Ignacio Díaz, José M. Enguita-González, Abel A. Cuadrado, Diego García, Ana González

Visualizing Cell Motility Patterns from Time Lapse Videos with Interactive 2D Maps Generated with Deep Autoencoders

Ana González, José María Enguita, Ignacio Díaz, Diego García, Abel Alberto Cuadrado, Nuria Valdés, María D. Chiara

13:45 - 15:15

Session 21, AIAI: XPL_AI SENT (EXPLAINABLE AI / SENTIMENT ANALYSIS)

[Hybrid Session, Room 3](#)

Chair: Dr. Ron Triepels

Analysis of the lingering effects of Covid-19 on distance education

Büşra Kocaçınar, Nasibullah Qarizada, Cihan Dikkaya, Emirhan Azgun, Elif Yıldırım, Fatma Patlar Akbulut

CaTabRa: Efficient Analysis and Predictive Modeling of Tabular Data

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Alexander Maletzky, Sophie Kaltenleithner, Philipp Moser, Michael Giretzlehner
Explaining Machine Learning-Based Feature Selection of IDS for IoT and CPS Devices
Sesan Akintade, Seongtae Kim, Kaushik Roy
Improving Customer Experience in Call Centers with Intelligent Customer-Agent Pairing
Stylianos Filippou, Andreas Tsiartas, Petros Hadjineophytou, Spyros Christofides,
Kleanthis Malialis, Christos G. Panayiotou
Sentiment analysis of tweets on online education during COVID-19
Elif Yildirim, Harun Yazgan, Onur Özbek, Ahmet Can Günay, Büşra Kocaçınar, Öznur
Şengel, Fatma Patlar Akbulut

13:45 - 15:15

Session 22, Workshop: 5G-PINE III (5G PINE 2023)

[Remote Session, Room 4](#)

Chair: Dr. Ioannis Chochliouros

Use Cases Employing a Machine Learning Network Architecture

ALEXANDROS KOSTOPOULOS, Ioannis P. Chochliouros, John Vardakas, Christos
Verikoukis, Md Arifur Rahman, Andrea P. Guevara, Robbert Beerten, Philippe Chanclou,
Roberto Gonzalez, Charalambos Klitis, Pierangela Samarati, Polyzois Soumplis,
Emmanuel Varvarigos, Dimitrios Kritharidis, Kostas Chartsias, Christina Lessi

Network slicing vs. network neutrality - is consent possible?

Lechosław Tomaszewski, Robert Kołakowski

Smart5Grid Testing Strategy & Field Implementations for RT Wide Area Monitoring of
Interconnected Systems

Ioannis P. Chochliouros, Dimitrios Brodimas, Nikolaos Tzanis, Michalis Rantopoulos,
Daniel Shangov, Georgi Hristov, Atanas Velkov, Irina Ciornei, Daniele Porcu

Fetal ECG extraction based on Overcomplete ICA and Empirical Wavelet Transform

Theodoros Lampros, Nikolaos Giannakeas, Konstantinos Kalafatakis, Markos Tsipouras,
Alexandros Tzallas

13:45 - 15:30

Session 23, Workshop: DAAI II (Defense Applications of AI – Defense Use Cases)

[Remote Session, Room 5](#)

Chair: Mr. Isidoros Monogioudis

Co-Organized together with European Defense Agency

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Neil Beet, Steve Algieri – AWS,

Delivering situational awareness at speed and scale for defence

Lukasz Kuncewicz – DIGICA,

Multimodal battlefield observation

Vasilios Papantoniou – HTR,

The path to full autonomy passes through energetics

Pieter-Jan Demeyer – OIP,

AI in Defense applications: Challenges and use cases

Alvaro Alfaro – GMV,

Reinforcement Learning application to the Hybrid Warfare decision making process in a Wargaming Toolkit

Angelos Tsereklas – SOTIRIA,

Fusing multi-sensor data for underwater intelligence applications

13:45 - 15:45

Session 24, Workshop: AIBMG (AI in Energy, Buildings and Micro-Grids)

[Remote Session, Room 6](#)

Chairs: Prof. Stelios Krinidis, Dr. Iakovos Michailidis

A Guide to Visual Comfort: An Overview of Indices and Its Applications

Christos Tzouvaras, Asimina Dimara, Alexios Papaioannou, Kanela Karatzia, Christos-Nikolaos Anagnostopoulos, Stelios Krinidis, Konstantinos I. Arvanitis, Dimosthenis Ioannidis, Dimitrios Tzouvaras

A novel social collaboration platform for enhancing energy awareness

Efstathia Martinopoulou, Asimina Dimara, Anastasia Tsita, Sergio Luis Herrera Gonzalez, Rafael Marin-Perez, Juan Andres Sanchez Segado, Piero Fraternali, Stelios Krinidis, Christos-Nikolaos Anagnostopoulos, Dimosthenis Ioannidis, Dimitrios Tzouvaras

Ensuring Reliability in Smart Building IoT Operations through Real-Time Holistic Data Treatment

Aliki Stefanopoulou, Asimina Dimara, Iakovos Michailidis, Georgios Karatzinis, Alexios Papaioannou, Stelios Krinidis, Christos-Nikolaos Anagnostopoulos, Elias Kosmatopoulos, Dimosthenis Ioannidis, Dimitrios Tzouvaras

Realtime multi-factor dynamic thermal comfort estimation for indoor environments

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Georgia Tzitziou, Asimina Dimara, Alexios Papaioannou, Christos Tzouvaras, Stelios Krinidis, Christos-Nikolaos Anagnostopoulos, Dimosthenis Ioannidis, Dimitrios Tzouvaras
Self-protection of IoT gateways against breakdowns and failures enabling automated sensing and control

Alexios Papaioannou, Asimina Dimara, Iakovos Michailidis, Aliko Stefanopoulou, Georgios Karatzinis, Stelios Krinidis, Christos-Nikolaos Anagnostopoulos, Elias Kosmatopoulos, Dimosthenis Ioannidis, Dimitrios Tzouvaras

Semantic Interoperability for managing Energy-efficiency and IEQ: A short review

Christos Tzouvaras, Asimina Dimara, Alexios Papaioannou, Christos-Nikolaos Anagnostopoulos, Konstantinos Kotis, Stelios Krinidis, Dimosthenis Ioannidis, Dimitrios Tzouvaras

Treating Common Problems Observed during Smart Building Control Real-Life Testing: Sharing Practical Experience

Georgios Karatzinis, Iakovos Michailidis, Asimina Dimara, Aliko Stefanopoulou, Vasileios Georgios Vasilopoulos, Stelios Krinidis, Christos-Nikolaos Anagnostopoulos, Elias Kosmatopoulos, Dimosthenis Ioannidis, Dimitrios Tzouvaras

13:45 - 15:30

Session 25, Workshop: MHDW II (Mining Humanistic Data)

[Remote Session, Room 7](#)

Chair: Prof. Aristidis Vrahatis

Applying SCALEX scRNA-seq Data Integration for Precise Alzheimer's Disease Biomarker Discovery

Aristidis Vrahatis, Konstantinos Lazaros, Petros Paplomatas, Marios G. Krokidis, Themis Exarchos, Panagiotis Vlamos

EventMapping: Geoparsing and Geocoding of Twitter messages in the Greek language

Gerasimos Razis, Ioannis Anagnostopoulos, Ioannis Maroufidis

Handwritten Word Recognition using Deep Learning Methods

Vasileios Lagios, Isidoros Perikos, Ioannis Hatzilygeroudis

Local Maximal Equality-free Periodicities

Mai Alzamel, Jacqueline W. Daykin, Christopher Hampson, Costas S. Iliopoulos, Zara Lim, W. F. Smyth

Using Siamese BiLSTM Models for Identifying Text Semantic Similarity

Georgios Fradelos, Isidoros Perikos, Ioannis Hatzilygeroudis

Water Quality estimation from IoT sensors using a Meta-ensemble

Gregory Davrazos, Theodor Panagiotakopoulos, Sotiris Kotsiantis

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

16:15 - 23:30 Social Activity
Excursion to Valporquero cave & Gala Dinner

Visit to Valporquero cave (in groups) <http://www.cuevadevalporquero.es/>

Address: Valporquero del Torío, León

GPS coordinates: 42.906287, -5.558550

Departure from conference venue (Engineering School): 16:15

Starting the visit in groups (depending on the number of participants): 17:15 (the remaining groups will be stepped)

Expected duration: 1 hour (each group)

Recommendations: Participants should wear appropriate clothing and footwear due to the humidity and water inside the cave.

Departure to Villamanín (for dinner): 19:15

Gala dinner:

Restaurant: Casa Ezequiel <https://www.embutidosezequiel.com/en/>

Address: Ctra. Asturias, 7 - Villamanín, León

GPS coordinates: 42.938314, -5.659280

Starting time: 20:00

Expected duration: 2 hours and half.

Description of the activity: the gala dinner includes a traditional menu with several starters for sharing, then a main course and finally a desert (drinks and coffee or tea are included). It will be served in a formal way (seated).

Estimates Arrival to León time: 23:30

The above social activity is complimentary and free for all registered conference participants. Please be sure to have your name badge/ QR code with you.

A ticket is required for Accompanying persons.

More info can be found at the conference registration desk.

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Friday 16/6/2023

9:30–17:30 Registration

10:00-11:00

Session 26, Keynote 4: “How AI/Machine Learning has the power of revolutionizing (for good?) cybersecurity?”

[Hybrid Session, Room 1 – Keynote 4](#)

Chair: Prof. Miguel Angel Prada

Keynote Speaker: Dr. Javier Alonso Lopez

Principal Machine Learning Applied Scientist Microsoft AI Platform – Microsoft OpenAI

11:30-13:00

Session 27, EANN/EAAAI: XPLA CLU TMS (EXPLAINABLE AI / CLUSTERING / TIMESERIES)

[Hybrid Session, Room 1](#)

Chair: Prof. Kaushik Roy

DACL: A Domain-Adapted Contrastive Learning approach to Low Resource Language Representations for Document Clustering tasks

Dimitrios Zaikis, Stylianos Kokkas, Ioannis Vlahavas

Evaluating the Extraction of Toxicological Properties with Extractive Question Answering

Bruno Carlos Luís Ferreira, Hugo Gonçalo Oliveira, Hugo Amaro, Ângela Laranjeiro, Catarina Silva

Forecasting Functional Time Series using Federated Learning

Raúl Llasag Rosero, Catarina Silva, Bernardete Ribeiro

Modeling Others as a Player in Non-cooperative Game for Multi-agent Coordination

Junjie Zhong, Toshiharu Sugawara

Towards Explaining Shortcut Learning Through Attention Visualization and Adversarial Attacks

Pedro Gonçalo Correia, Henrique Lopes Cardoso

11:30-13:00

Session 28, AIAI: CNN (CONVOLUTIONAL NEURAL NETWORKS)

[Hybrid Session, Room 2](#)

Chair: Dr. Sergio Cebollada

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

3D Attention based YOLO-SWINF for real-time video object detection

Pradeep Moturi, Mukund Khanna, Kunal Singh

Analysis of Data Augmentation Techniques for Mobile Robots Localization by Means of Convolutional Neural Networks

Orlando José Céspedes, Sergio Cebollada, Juan José Cabrera, Óscar Reinoso, Luis Payá

Intrusion Detection using Attention-Based CNN-LSTM Model

Ban AlOmar, Zouheir Trabelsi

Predicting Hotel Performance in Oman with AI-Driven Predictive Analytic

R.S. Al Jassim, Karan Jetly, Shqran Al Mansoori, Muna Al-Balushi, Hilal Al Maqbali

Real-Time Arabic Digit Spotting with TinyML-Optimized CNNs on Edge Devices

Yasmine Abu Adla, Mazen A. R. Saghir, Mariette Awad

11:30-13:00

Session 29, AIAI: DEEP (DEEP LEARNING)

[Hybrid Session, Room 3](#)

Chair: Dr. Antonios Papaleonidas

Decentralized Multi Agent Deep Reinforcement Q-learning for Intelligent Traffic Controller

Thamilselvam B, Subrahmanyam Kalyanasundaram, M.V. Panduranga Rao

Deep Learning Based Employee Attrition Prediction

Kerem Gürler, Burcu Kuleli Pak, Vehbi Cagri Gungor

Deep Reinforcement Learning for Robust Goal-Based Wealth Management

Tessa Bauman, Bruno Gašperov, Stjepan Begušić, Zvonko Kostanjčar

Generating synthetic vehicle speed records using LSTM

Jiri Vransy, Michal Krepelka, Matej Chumlen

The Importance of the Current Input in Sequence Modeling

Christian Oliva, Luis F. Lago-Fernández

11:30-13:00

Session 30, EANN/EAAAI: CLASS CYBS (CLASSIFICATION / CYBER SECURITY)

[Remote Session, Room 4](#)

Chair: Prof. Lazaros Iliadis

An Autonomous Self-Learning and Self-Adversarial Training Neural Architecture for Intelligent and Resilient Cyber Security Systems

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Konstantinos Demertzis, Lazaros Iliadis

Balancing high-dimensional datasets with complex layers

Leon Bobrowski

Conductivity Classification Using Machine Learning Algorithms in the “Bramianon” Dam

Nichat Kiourt, Lazaros Iliadis, Antonios Papaleonidas

Load-Shedding Management in a Smart Grid Architecture Through Smart Metering

Muhammad Faizan Khan, Gul Muhammad Khan

Multi-View Semi-Supervised Learning using Privileged Information

Evgueni Smirnov, Richard Delava, Ron Diris, Nikolay Nikolaev

14:00-16:15

Session 31, Keynote 5: “AI & ETHICS + Doctoral Track”

[Hybrid Session, Room 1 – Keynote 5](#)

Chair: Prof. Ilias Maglogiannis

Keynote Speaker: Professor John Macintyre

Dean of the Faculty of Applied Sciences and Pro Vice Chancellor at University of Sunderland

16:15 - 17:45

Session 32, EANN/EAAAI: CLASS SEC ETH (CLASSIFICATION / SECURITY / ETHOLOGY)

[Hybrid Session, Room 1](#)

Chair: Prof. Dario Malchiodi

A Critical Analysis of Classifier Selection in Learned Bloom Filters: the Essentials

Dario Malchiodi, Davide Raimondi, Giacomo Fumagalli, Raffaele Giancarlo, Marco Frasca

BotDroid: Permission-based Android Botnet Detection Using Neural Networks

Saeed Seraj, Elias Pimenidis, Michalis Pavlidis, Stelios Kapetanakis, Marcello Trovati, Nikolaos Polatidis

Computational Ethology: short review of current sensors and artificial intelligence based methods

Marina Aguilar-Moreno, Manuel Graña

Generation of Bases for Classification in the Bio-inspired Layered Networks

Naohiro Ishii, Kazunori Iwata, Tokuro Matsuo

Towards Improved User Experience for Artificial Intelligence Systems

Lisa Brand, Bernhard G. Humm, Andrea Krajewski, Alexander Zender

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

16:15 - 17:45

Session 33, AIAI: CLASS GRPH NL (CLASSIFICATION / GRAPHS / NATURAL LANGUAGE)

[Hybrid Session, Room 2](#)

Chair: Prof. Andrew Starkey

Exploring pairwise spatial relationships for actions recognition and scene graph generation

Anfel AMIRAT, Nadia BAHA, Lamine BENRAIS

Hyperspectral Classification of Recyclable Plastics in Industrial Setups

Georgios Alexakis, Michail Maniadakis

Ince-PD model for Parkinson's Disease Prediction using MDS-UPDRS I & II and PDQ-8 Score

Nikos Tsolakis, Christoniki Maga-Nteve, Georgios Meditskos, Stefanos Vrochidis, Ioannis Kompatsiaris

Probabilistic Decision Trees for Predicting 12-Month University Students Likely to Experience Suicidal Ideation

Efthymoulos Drousiotis, Daniel Joyce, Robert Dempsey, Alina Haines, Paul Spirakis, Lei Shi, Simon Maskell

Towards Automatic Evaluation of NLG Tasks using Conversational Large Language Models

Md Riyadh, Omair Shafiq

16:15 - 17:45

Session 34, AIAI: DEEP BOOST (DEEP LEARNING / BOOSTING)

[Hybrid Session, Room 3](#)

Chair: Prof. Daniel Stamate

Control of a Water Tank System with Value Function Approximation

Shamal Lalvani, Aggelos Katsaggelos

Detecting P300-ERPs Building a Post-Validation Neural Ensemble with Informative Neurons from a Recurrent Neural Network

Christian Oliva, Vinicio Changoluisa, Francisco B. Rodríguez, Luis F. Lago-Fernández

Energy efficiency of Deep Learning Compression Techniques in Wearable Human Activity Recognition

Chiara Contoli, Emanuele Lattanzi

Enhancing medication event classification with syntax parsing and adversarial learning

Zsolt Szántó, Balázs Bánáti, Tamás Zombori

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Predicting Colour Reflectance with Gradient Boosting and Deep Learning

Asei Akanuma, Daniel Stamate, Mark Bishop

16:15 - 17:45

Session 35, AIAI: DEEP IND (DEEP LEARNING in INDUSTRY)

[Remote Session, Room 4](#)

Chair: Prof. Paulo Cortez

AutoTiM - An Open-Source Service for Automated Provisioning and Operation of Time Series Based Machine Learning Models

Andre Ebert, Jakob Kempter, Marina Siebold, Robert Pesch, Tetyana Turiy, Tevin Tchuinkam, Thomas Caffin Sune

Characterization of an absorption machine using artificial neural networks

Alfonso Jesús Ferre Montoya, María del Mar Castilla Nieto, José Antonio Carballo López, José Domingo Álvarez Hervás

Hybrid Machine Learning and Autonomous Control assisted Framework for Fault Diagnostics and Mitigation in Diesel Engines

Raman Goyal, Dhruvajit Chowdhury, Subhashis Hazarika, Raj Pradip Khawale, Shubhendu Kumar Singh, Lara Crawford, Rahul Rai

Machine Learning for Predicting Production Disruptions in the Wood-Based Panels Industry: A Demonstration Case

Claudia Afonso, Arthur Matta, Luís Miguel Matos, Miguel Bastos Gomes, Antonina Santos, Andre Pilastrri, Paulo Cortez

Pre-Launch Fashion Product Demand Forecasting Using Machine Learning Algorithms

Marios Arampatzis, Georgios Theodoridis, Athanasios Tsadiras

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Saturday 17/6/2023

9:00–13:30 Registration*

* On Site Registration Desk will open at 10:00 a.m.

9:30 - 10:45

Session 36, EANN/EAAAI: DEEP ENR RECMN (DEEP LEARNING (ENERGY / RECOMMENDATION / GRAPHS))

[Remote Session, Room 4](#)

Chair: Dr. Konstantinos Demertzis

A Novel Neural Network-Based Recommender System for Drug Recommendation

Hadi Al Mubasher, Ziad Doughan, Layth Sliman, Ali Haidar

Knowledge Graph of Urban Firefighting with Rule-based Entity Extraction

Xudong Wang, Nady Slam, Zixiang Zhang, Mingtong Zhang, Jingrong Wang

Residual Error Learning for Electricity Demand Forecasting

Achilleas Andronikos, Maria Tzelepi, Anastasios Tefas

Wind Energy Prediction Guided by Multiple-Location Weather Forecasts

Charalampos Symeonidis, Nikos Nikolaidis

9:30 - 10:45

Session 37, AIAI: LEAR AUTOEN (LEARNING / AUTO ENCODERS)

[Remote Session, Room 5](#)

Chair: Dr. Cristian Daniel Alecsa

Active Learning Query Strategy Selection Using Dataset Meta-Features Extraction

Vangjel Kazllarof, Sotiris Kotsiantis

Maritime Federated Learning for Decentralized On-ship Intelligence

Anastasios Giannopoulos, Nikolaos Nomikos, Georgios Ntroulias, Theodoros Syriopoulos, Panagiotis Trakadas

OF-AE: Oblique Forest AutoEncoders

Cristian Daniel Alecsa

VAE-based generic decoding via subspace partition and priori utilization

Mingyang Sheng, Yongqiang Ma, Kai Chen, and Nanning Zheng

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

9:30 - 10:45

Session 38, AIAI: DEEP CYDEF HEU GRNN (DEEP / CYBER DEFENCE / HEURISTICS / GRAPH_NN)

[Remote Session, Room 6](#)

Chair: Prof. Daniel Perez

GCN-based reinforcement learning approach for scheduling DAG applications

Julius Roeder, Andy Pimentel, Clemens Grelck

Next Generation Automated Reservoir Computing for Cyber Defense

Konstantinos Demertzis, Lazaros Iliadis

Prediction of Drug Interactions Using Graph-topological Features and GNN

Navyasree Balamuralidhar, Pranav Surendran, Gaurav Singh, Shrutilipi Bhattacharjee, Ramya D Shetty

Scheduling the Service of Cargo Vessels in a Single Port with Spatial and Temporal Constraints

Loukas Chatzivasili, Emmanouil S. Rigas, Nick Bassiliades

10:45-11:45

Session 39, Keynote 6: “Evolutionary Neural Architecture Search: Computational Efficiency, Privacy Preservation and Robustness Enhancement”

[Hybrid Session, Room 1 – Keynote 6](#)

Chair: Prof. Ilias Maglogiannis

Keynote Speaker: Professor Yaochu Jin

Bielefeld University, Germany and Distinguished Chair, University of Surrey

11:45 - 13:15

Session 40, AIAI: DEEP ROBO SPIKE (DEEP LEARNING / ROBOTICS / SPIKING NN)

[Hybrid Session, Room 1](#)

Chair: Prof. Abel Alberto Cuadrado

Efficient Spatio-Temporal Graph Neural Networks for Traffic Forecasting

Yackov Lubarsky, Alexei Gaissinski, Pavel Kisilev

Emergence of communication through artificial evolution in an orientation consensus task in swarm robotics

Rafael Sendra-Arranz, Álvaro Gutiérrez

Lossless Method of Constraining Membrane Potential in Deep Spiking Neural Networks

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Yijie Miao, Makoto Ikeda

Matching patterns of temporal neural activity using the Victor-Purpura distance in real-time

Alberto Ayala, Angel Lareo, Pablo Varona, Francisco B. Rodriguez

Transfer Learning through Knowledge-Infused Representations with Contextual Experts

Daniel Biermann, Morten Goodwin, Ole-Christoffer Granmo

11:45 - 13:15

Session 41, AIAI: CLASS EXPL ANOM (CLASSIFICATION / EXPLAINABLE AI / ANOMALY
DETECTION)

[Hybrid Session, Room 2](#)

Chair: Dr. Pedro Santos

Cognitive Digital Twin in Manufacturing: A Heuristic Optimization Approach

Atiq Rehman, Mobyen Uddin Ahmed, Shahina Begum

Implicit directed acyclic graphs (DAGs) for parallel outlier / anomaly detection ensembles

David Muhr, Michael Affenzeller, Josef Küng

Natural Language Processing for the Turkish Academic Texts in the Engineering Field: Key-term
Extraction, Similarity Detection, Subject/Topic Assignment

Bora Kat

One-Class Models for Intrusion Detection at ISP Customer Networks

*Nuno Schumacher, Pedro M. Santos, Pedro F. Souto, Nuno Martins, Joana Sousa, João
M. Ferreira, Luis Almeida*

Towards Autonomous Developmental Artificial Intelligence: Case study for Explainable AI

Andrew Starkey, Chinedu Pascal Ezenkwu

11:45 - 13:15

Session 42, EANN/EAAAI: DEEP SPIKE IoT (DEEP LEARNING / SPIKING / IoT)

[Hybrid Session, Room 3](#)

Chair: Dr. Florian Merkle

Cross-learning-based sales forecasting using deep learning via partial pooling from multi-level
data

José Manuel Oliveira, Patricia Ramos

Digital Transformation for Offshore Assets: A Deep Learning Framework for Weld Classification
in Remote Visual Inspections.

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Luis Alberto Toral-Quijas, Eyad Elyan, Carlos Francisco Moreno-García, Jan Stander
Frameworks for SNNs: a Review of Data Science-oriented Software and an Expansion of SpykeTorch

Davide Liberato Manna, Alex Vicente-Sola, Paul Kirkland, Trevor J. Bihl, Gaetano Di Caterina

Pruning for Power: Optimizing Energy Efficiency in IoT with Neural Network Pruning

Thomas Widmann, Florian Merkle, Martin Nocker, Pascal Schöttle

Toward an Epidermal patch for voice prosthesis and diseases prediction by a fuzzy-neuro paradigm

Mario Malcangi, Giovanni Felisati, Alberto Saibene, Enrico Alfonsi, Mauro Fresia, Pasquale Cambiaghi

11:45 - 13:15

Session 43, EANN/EAAAI: DEEP FED ENSM (DEEP / FEDERATED / ENSEMBLE)

[Remote Session, Room 4](#)

Chair: Prof. Cira Perna

Deep Transfer Learning Application for Intelligent Marine Debris Detection

Kai Yuan Chia, Cheng Siong Chin, Simon See

Group-Personalized Federated Learning for Human Activity Recognition through Cluster Eccentricity Analysis

Ahmed Al-Saedi, Veselka Boeva

MiniAnDE: a reduced AnDE ensemble to deal with microarray data

Pablo Torrijos Arenas, José A. Gámez, José M. Puerta

Neural Network Bootstrap Forecast Distributions with Extreme Learning Machines

Michele La Rocca, Cira Perna

Subsampled dataset challenges and Machine Learning techniques in Table Tennis

Dimitrios Simopoulos, Andreas Nikolakakis, George Anastassopoulos

11:45 - 13:15

Session 44, AIAI: DEEP TXMN (DEEP LEARNING / TEXT MINING)

[Remote Session, Room 5](#)

Chair: Prof. Athanasios Tsadiras

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

A Deep Learning-based methodology for Detecting and Visualizing Continuous Gravitational Waves

Emmanuel Pintelas, Ioannis Livieris, Panagiotis Pintelas

Comparing Machine Learning Techniques for House Price Prediction

Konstantinos Panagiotis Fourkiotis, Athanasios Tsadiras

Fake News Detection utilizing textual cues

Vasiliki Chouliara, Paraskevas Koukaras, Christos Tjortjis

Forecasting Goal Performance for Top League Football Players: A Comparative Study

Nikolaos Giannakoulas, George Papageorgiou, Christos Tjortjis

Improving Supply Chain Management by integrating RFID with IoT Shared Database: Proposing a System Architecture

Elena Puica

11:45 - 13:15

Session 45, AIAI: SOCI EXPL TXMN ROBO (AI SOCIAL IMPACT / EXPLAINABLE AI / TEXT MINING ROBOTICS)

[Remote Session, Room 6](#)

Chair: Prof. Nicolas Tsapatsoulis

An innovative method to study the social impact of AI on the work environment based on a multi-dimensional human-centred analysis of the worker-AI team

Simona D'Attanasio, Sara De Martino, Yann Ferguson

Data Collection Automation in Machine Learning Process using Robotic Manipulator

Piotr Reczek, Jakub Panczyk, Andrzej Wetula, Andrzej Młyniec

Explaining the Unexplainable: Role of XAI for Flight Take-Off Time Delay Prediction

Waleed Jmoona, Mobyen Uddin Ahmed, Mir Riyanul Islam, Shaibal Barua, Shahina Begum, Ana Ferreira, Nicola Cavagnetto

Thematic Modeling of UN Sustainable Development Goals: A Comparative Meta-based Approach

Harris Partaourides, Emily Kouzaridi, Nicolas Tsapatsoulis, Constantinos Djouvas

13:15-13:45 Closing Ceremony

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Webex Events Platform Access Links

Main Rooms:

24th EANN / EAAAI – 19th AIAI 2023 Room 1 & Plenary

Session: 1, 2, 6, 7, 11, 12, 19, 26, 27, 31, 32, 39, 40

<https://eann-aiai.webex.com/eann-aiai/j.php?MTID=m832c85019d916af6bb5a04374b2ca1e4>

24th EANN / EAAAI – 19th AIAI 2023 Room 2

Session: 3, 8, 13, 20, 28, 33, 41

<https://eann-aiai.webex.com/eann-aiai/j.php?MTID=m3cde09650430e81685c7a6dbeb26054d>

24th EANN / EAAAI – 19th AIAI 2023 Room 3

Session: 4, 9, 14, 21, 29, 34, 42

<https://eann-aiai.webex.com/eann-aiai/j.php?MTID=mecf8f771659c09b5c275339b2423e746>

24th EANN / EAAAI – 19th AIAI 2023 Room 4

Session: 5, 10, 15, 22, 30, 35, 36, 43

<https://eann-aiai.webex.com/eann-aiai/j.php?MTID=md9276c628572f2acb02e1f3af3199a72>

24th EANN / EAAAI – 19th AIAI 2023 Room 5

Session: 16, 23, 37, 44

<https://eann-aiai.webex.com/eann-aiai/j.php?MTID=me3079d4983503da1dcd56ba7eb98cb4d>

24th EANN / EAAAI – 19th AIAI 2023 Room 6

Session: 17, 24, 38, 45

<https://eann-aiai.webex.com/eann-aiai/j.php?MTID=m11526d94f49ee2f9300982426e07d742>

24th EANN / EAAAI – 19th AIAI 2023 Room 7

Session: 18, 25

<https://eann-aiai.webex.com/eann-aiai/j.php?MTID=m3241542e93064fc7aac8482e4aa4fdb0>

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone

Support Rooms:

24th EANN / EAAAI – 19th AIAI 2023 Registration, Demo & Support Room

<https://eann-aii.webex.com/eann-aii/j.php?MTID=m1027d158afde55ccddfe7e2dbc0f2c05>

During conference days our EANN / EAAAI – AIAI 2023 Registration Demo & Support Room will be available as follows:

- Wednesday 14th of June 2023, 09:00 to 17:00 CEST
- Thursday 15th of June 2023, 09:00 to 15:30 CEST
- Friday 16th of June 2023, 09:30 to 17:30 CEST
- Saturday 17th of June 2023 09:00 to 13:30 CEST

During the above timeslots all participants can reach our team by:

- Using the Registration, Demo & Support Room
- Messenger chat using the messenger plugin at the conference website
- Viber Text or call at: +30 6982 087 998
- WhatsApp Text or call at: +30 6982 087 998
- Direct call at: +30 6982 087 998

More info can be found under the **“Live Event”** menu on the conference website.

Note that all times at the program are in Spain - CEST (Central European Summer Time) Zone