

Monday, 23.06.2025

13:00	Registration
14:00–16:30	WISHWell'2025 - 14th International Workshop on Intelligent Environments Supporting Healthcare and Well-being
	Chairs: Juan Carlos Augusto, Anton Gradišek
	Keynote: Empowering Autonomy at Home: DIY Cognitive Assistance in Smart Homes Sylvain Giroux
	Depth cameras for frailty assessment: a dataset for automatic balance tests evaluation Mario Quinde*, Bruno Rioja, Oscar Belmonte-Fernandez, Gerardo Castillo, Miguel Castro
	On the Opportunities and Risks of Generative AI in Mental Health Shweta Premanandan*, Jennifer Gross, Sofia Ouhbi
	Towards Mobile Deep Venous Function Assessment: An Algorithmic Approach Vincent Abt*, Sergio Staab, Florian Kirchbuchner, Arjan Kuijper
	Towards a Unified Architecture for Remote Patient Monitoring Federico Bergamini, Giovanni Donato Gallo*, Daniela Micucci
14:00	Tutorial on Explainable and Robust AI for Industry 4.0 & 5.0 (X-RAI) Sepideh Pashami, Joao Gama, Rita P. Ribeiro, Bruno Veloso
15:00–15:30	Coffee Break & Networking
16:30–18:00	Fraunhofer IGD Demo Tour
18:00	Welcome Reception



Tuesday, 24.06.2025

08:30	Registration
09:30	Tutorial: Which Missing Feature Should I Acquire If My Data Is Streaming? An Introduction to Active Feature Acquisition on Data Streams
00.20 42-45	Christian Beyer
09:30–12:15	WORIE'25 - 14th International Workshop on the Reliability of Intelligent Environments Chairs: Adityarajsingh Santokhee, Juan Carlos Augusto, Carlos Rodriguez Dominguez
	Keynote: Privacy Preserving in Edge Intelligence: Evaluation and Insights Bahman Javadi*
	Keynote: Accurate and Cost-Scalable Visual-Geometric Matching for indoor IoT Services Junji Takahashi
	Rule-Based Adaptive Energy Optimization for Neural Network-Based Energy-Efficient Transmission in Intelligent Systems
	David Emmanuel*, Nimesha Gamage, Anil Fernando
	Quality Model Tool for Intelligent Environments: Initial Findings from a Literature Review Mrinal Sharma*
	CAWN: Calibration-less Wi-Fi Sensing with NeRF
	Natsumi Yoda*, Ryota Kokubu, Yui Yamashita, Yuusuke Kawakita, Yoshito Tobe
	Middleware for Assisted Living Homes (MiddAALware)
	Omer Faruk Kacar
10:30-11:00	Coffee Break & Networking
12:15–13:30	Lunch Break
13:30	Tutorial: Introducing a Quality Enhanced Process for Developing Intelligent Environments Aditya Santokhee
13:30–16:15	ALLEGET'25 – 5th International Workshop on Artificial Intelligence and Machine Learning for Emerging Topics
	Chairs: Andrés Muñoz Ortega, Raquel Martínez-España, Fernando Terroso, Andrés Bueno-Crespo
	From ambient to space and back with a little help from machine learning Bogdan Ruszczak
	The Role of semantic Models in constraining Pattern Recognition in Modern Al Systems Felix Schaller
	Vertical Projected Area Measurement Method Using Semantic Segmentation for Crop Growth Prediction Rintaro Ito*, Nobutada Fujii, Tekehide Soh, Shinichi Nakano
	Leveraging Artificial Intelligence to Forecast Bird Sightings and its Visualization with Augmented Web Technologies
	Juan Morales-Garcia, Paula Gonzalez-Martínez, Jose Melgarejo-Hernandez, Paula García-Tapia-Mateo*, Irene Garriogos, Jose-Norberto Mazon
	Configuring the transformer-based electricity market predictions using ant colony optimization Jakub Sahs, Bogdan Ruszczak*
	Reinforcement Learning in de novo Molecular Design: Comparative Review of REINVENT 4, MolDQN, and ORGANIC
	Asian Calamanainet Comman Taylor
	Arjun Subramanian*, Connor Taylor Coffee Break & Networking



Wednesday, 25.06.2025

08:00	Registration
09:00-09:15	Conference Opening
09:15-09:15	Keynote I: Role of Edge Computing in Age of Machine Learning and Resource Constraints
	Klara Nahrstedt
10:15-10:45	Coffee Break & Networking
10:45–11:45	Edge- and LLM-Enabled Technologies
	The Meliferea chatbot: Harnessing large language models to interact with geoanalytical
	services using natural human language
	Andreas Kamilaris*, Valentijn Embrecht
	Integrated Underwater Data Transmission and Object Detection System Using TinyML and Multi-Hop Networks
	Ch Madhu Bhushan, Shahedul Haque Laskar*, Jahnava Sai Garikapati, Sai Srihitha Polapragada, S Hemanth Durga Kumar, Firoj Gazi, MD Muzakkir Hussain
	Leveraging Edge Resources for Indoor Localization for Improved Accuracy
	Meka Naga Nandini Devi*, MD Muzakkir Hussain, Shahedul Haque Laskar, Firoj Gazi
11:45–12:30	Understanding Human Behavior
	Exploring Tradeoffs of Annotation Cost and Model Accuracy with Contrastive Learning for Yoga Pose Classification
	Zolboo Damiran*, Tomokazu Matsui, Yuki Matsuda, Hirohiko Suwa, Keiichi
	Human Activity Recognition in Smart Homes Using IMU Wristbands:
	A Comparative Study of Sampling Strategies and Machine Learning Models
	Nada Chabih*, Keven Rice, Kevin Bouchard, Sébastien Gaboury, Julien Maitre
12:30–13:30	Lunch Break
13:30–14:30	Keynote II: An innovative space communication system for expanding CPS into space Sumi Morioka
14:30-15:00	Coffee Break & Networking
15:00–15:45	Intelligent Healthcare Systems
	Improving Sleep Quality Classification Through Synthetic Sensor-Based Medical Data Generation Silvia Maria Massa*, Matteo Fenu
	Al-Driven Differential Diagnosis: Leveraging RAG and LLMs in Intelligent Healthcare Systems
	Simone Pinna*, Silvia Maria Massa, Daniele Riboni
17:00-19:00	Guided tour of the Mathildenhöhe world cultural heritage site
19:00	Gala Dinner



Thursday, 26.06.2025

08:00	Registration
09:00-09:10	Opening
09:10–10:10	Keynote III: Scalable and Energy-Efficient Distributed Machine Learning Dirk Kutscher
10:10-10:40	Coffee Break & Networking
10:40-12:00	Technologies for Smart Cities
	Supporting Energy Consumption Prediction: A Sustainable Approach
	Zahra Ziran*, Ala Arman, Massimo Mecella, Francesco Muzi, Giuseppe Piras
	Detecting Noise Pollution through a Spatio-temporal Deep Learning Model: A Case Study of Barcelona Marc Semper*, Manuel Curado, Jose F. Vicente
	Cost-effective ADAS for inter-vehicle distance estimation using computer vision and deep learning Gabriel Guerrero-Contrerasl*, Sara Balderas-Díaz, Alejandro Díaz-Gomez, Immaculade Medina-Bulo, Juan José Domínguez-Jiménez
	Explainable Artificial Intelligence for Audio-based Detection of Emergency Vehicles
	Sara Balderas-Díaz*, Gabriel Guerrero-Contreras, Andrés Muñoz, Dalila Durães, Paulo Novais
12:00–12:45	Doctoral Colloquium
	SPUR: Enhancing Cyclist Safety through Digital City Twins – A Data-Driven Infrastructure Planning and VR Simulation Approach Michael Disser
	Design of Immersive Environments to Enhance Learning for People with Disabilities Camilla Poggianti
	ACCESS: Accessibility to Clinical Care for People with ASD through Anxiety Management Elisa Salatti
12:45–13:45	Lunch Break
13:45-15:00	Agriculture and Wildlife
	Forecasting Sterility Mosaic Disease in Pigeonpea Using Dynamic Bayesian Networks and 3D Point
	Cloud High-throughput Scanning Platform Vojtech Mikes*, Alexander Kocian, Jana Kholova, Jan Masner, Adam Kleczkowski, Mamta Sharma, Stefano Chessa, Alexander Galha, Pavel Simek
	Vojtech Mikes*, Alexander Kocian, Jana Kholova, Jan Masner, Adam Kleczkowski, Mamta Sharma, Stefano Chessa, Alexander Galba, Pavel Simek Protecting Endangered Birds with Edge-Al: Real-Time Detection of Invasive Cats in Natural Parks
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