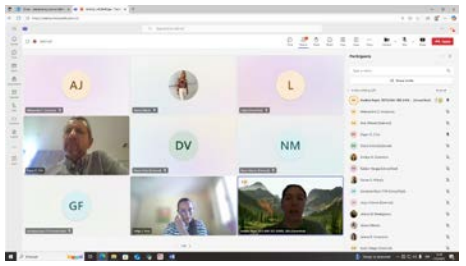
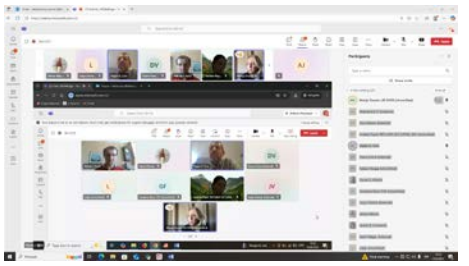
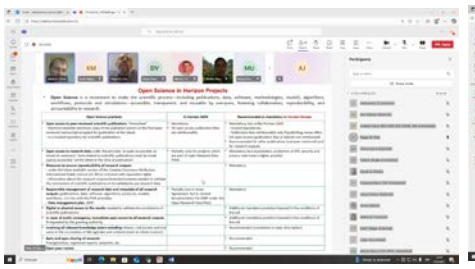
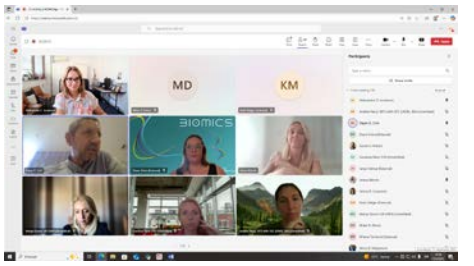
Newsletter of AIDA4Edge – Issue #3

Online Twinning Info Day Successfully Held

On September 15, 2025, we successfully held the online Twinning Info Day, dedicated to presenting ongoing EU-funded projects, exchanging experiences, and strengthening cooperation among participants..

The event featured a series of engaging presentations showcasing project objectives, activities, and achievements. Participants had the opportunity to hear presentations from the following projects: TWIN-RELECT (Prof. Christos Sotiriou), ARTIFACT (Milena Tamburić), TAICHIP (Prof. Maksim Jenihhin), UR–DATA (Prof. Marija Džunić), SUNRISE (Prof. Leposava Ristić), InnovAntiBiofilm (Prof. Manuel Simões), InPlasTwin (Prof. Janja Vidmar & Gordana Račić), RETLAMI-SEE (Prof. Anđela Pepić), TRANSIT (Prof. Lidija Korunović), ChatMED (Prof. Stevo Lukić), BIOMICS (Diana Vieira), and our own project, AIDA4Edge (Prof. Jelena Nikolić).

A special highlight was the discussion session, where participants openly shared their experiences in implementing project activities, offered advice, and supported each other in addressing common challenges related to continuous reporting, open science, risk management, interim review meeting, financial reporting, and intellectual property rights (IPR).

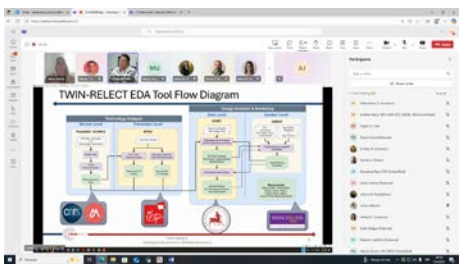
The event laid a strong foundation for deeper collaboration and networking, paving the way for new initiatives and joint projects in the future.

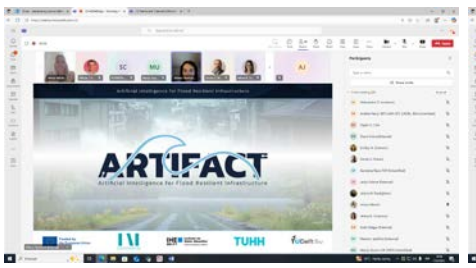
HORIZON-WIDERA-2023-ACCESS-02-01
Twinning for Excellence in Adaptive Edge AI – AIDA4Edge

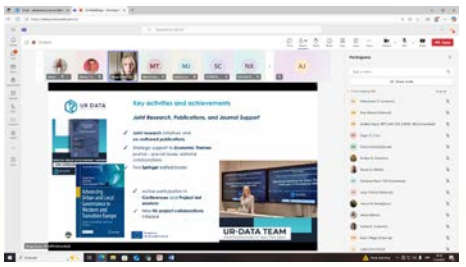
Twinning Info Day

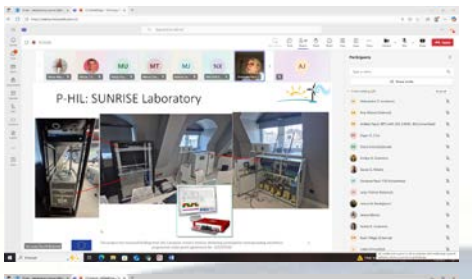
Date: September 15, 2025
Time: 09:30 – 14:00
Location: Online event (AIDA4Edge - Twinning Info Day | Meeting-Join | Microsoft Teams)

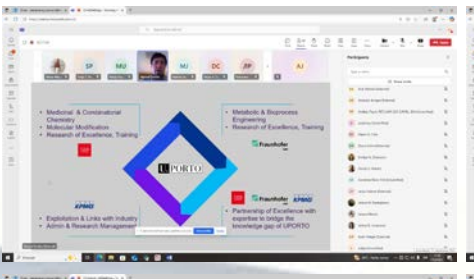
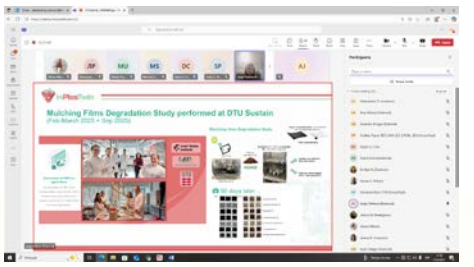
Agenda for the Twinning Info Day		
09:30 – 09:35	Introduction	Prof. Jelena Nikolić, *Faculty of Electronic Engineering, Univerzity of Niš, Serbia*
09:35 – 11:05	Project presentations - Session 1 - (15 min each)	1. **AIDA4Edge**, Prof. Jelena Nikolić, https://cordis.europa.eu/project/id/101160293 2. **TWIN-RELECT**, Prof. Christos Sotiriou, https://cordis.europa.eu/project/id/101160314 3. **ARTIFACT**, Milena Tamburić, https://cordis.europa.eu/project/id/101159480 4. **TAICHIP**, Prof. Maksim Jenihhin, https://cordis.europa.eu/project/id/101160182 5. **UR – DATA**, Prof. Marija Džunić, https://cordis.europa.eu/project/id/101059994 6. **SUNRISE**, Prof. Leposava Ristić, https://cordis.europa.eu/project/id/101079200
11:05 – 11:15	Break	
11:15 – 12:45	Project presentations - Session 2 - (15 min each)	7. **InnovAntiBiofilm**, Prof. Manuel Simões, https://cordis.europa.eu/project/id/101157363 8. **InPlasTwin**, Prof. Janja Vidmar, Gordana Račić, https://cordis.europa.eu/project/id/101160289 9. **RETLAMI-SEE**, Prof. Anđela Pepić, https://cordis.europa.eu/project/id/101158885 10. **TRANSIT**, Prof. Lidija Korunović, https://cordis.europa.eu/project/id/101075747 11. **ChatMED**, Prof. Stevo Lukić, https://cordis.europa.eu/project/id/101159214 12. **BIOMICS**, Diana Vieira, https://cordis.europa.eu/project/id/101159926
12:45 – 13:00	Break	
13:00 – 13:45	Discussion • The Continuous Reporting module - System for Grant Management • Open science • Risk management • Interim report presentation • Financial reporting • Reporting on IPR	
13:45 – 14:00	Concluding remarks	

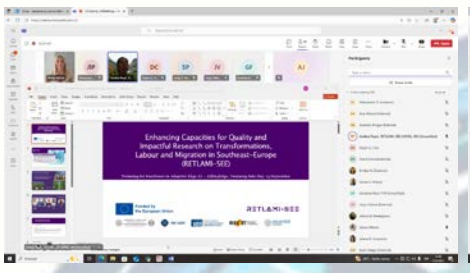


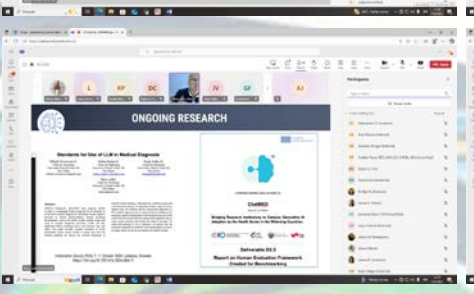










AIDA4Edge at the Prestigious Euromicro DSD/SEAA 2025 Conference in Salerno

This year's Euromicro Conference Series DSD/SEAA consisted of the 28th Euromicro Conference on Digital System Design (DSD) and the 51st Euromicro Conference on Software Engineering and Advanced Applications (SEAA), held in Salerno, Italy, from September 10th to 12th, 2025.

The conference brought together 241 participants from around the world across 35 technical sessions, providing a vibrant forum for the exchange of ideas and recent research results in the fields of digital system design and software engineering.

We are very pleased that Marko Anđelković, a member of our team from the Leibniz Institute for High Performance Microelectronics (IHP), Germany, had the opportunity to present our project, AIDA4Edge: Twinning for Excellence in Adaptive Edge Artificial Intelligence, at such a prestigious international conference, introducing the project concept as well as the key goals and vision we have set.

This participation represents an important step in increasing the project's international visibility and fostering collaboration within the European research and innovation community.

Strengthening Engagement with Our Stakeholder: European House – EU Info Center

On August 8, 2025, AIDA4Edge team members Prof. Jelena Nikolić and Prof. Dejan Ćirić visited the Europe House in Niš (https://evropskakuca.rs/en/nis/), where they were warmly welcomed by Ms. Danijela Vučićević.

The meeting was a great opportunity to exchange ideas about future collaboration with EU-funded project teams, share information on upcoming EU calls, and discuss support for organizing upcoming AIDA4Edge activities the Twinning Info Day and Stakeholder Forum.

The visit also featured a brief presentation of the AIDA4Edge project and its mission.

AIDA4Edge presented at "Aspettando la notte e oltre" in Ferrara

We are pleased to announce that Riccardo Zese, representing the AIDA4Edge team from the University of Ferrara, presented our project at "Aspettando la notte e oltre", hosted by the University of Ferrara on September 25, 2025.

In his talk, "AIDA4Edge: un progetto di ricerca che è anche di supporto", he outlined the project's vision, objectives, and expected impact, while emphasizing its cutting-edge research theme.

This public science event, part of the European Researchers' Night, brought together experts from diverse fields to share their work and engage with the broader community.

We thank the organizers for including the EU-funded AIDA4Edge project in this inspiring and multidisciplinary program.

Short-Term Visit of the University of Niš Team to the University of Manchester

From September 23–26, 2025, the University of Niš team participated in a short-term visit hosted by the University of Manchester, Department of Computer Science, as part of the EU- and UKRI-funded Twinning AIDA4Edge project. This visit brought together experienced researchers and early stage researchers from both sides, as well as researchers from other universities and research centers across Europe, to exchange knowledge and strengthen collaboration in the fields of dynamic neural networks and spiking neural networks. The program also included sessions on research management and administration, covering topics such as gender equality, diversity, and inclusion within the research environment.

Over the course of four days, we had the opportunity to engage in a rich and inspiring program featuring cutting-edge research, hands-on training, and meaningful discussions:

- **September 23 – Dynamic Neural Networks Day**
  Prof. Davide Bertozzi (University of Manchester): *"Dynamic Neural Networks – a Review"* (Parts I & II)
  Meeting with Octavian Buiu (Scientific Director of the National R&D Institute for Microtechnologies - IMT Bucharest) and Marius Mitroi form UEFISCDI (Executive Agency for Higher Education, Research, Development and Innovative Funding)

Online Mini-Workshop on Dynamic Neural Networks (Session I: Network Architecture Search and Session II: Slimmable Neural Networks):

Prof. Riccardo Zese (University of Ferrara, Italy): *"Efficient Resource-Aware Neural Architecture Search with a Neuro-Symbolic Approach"*

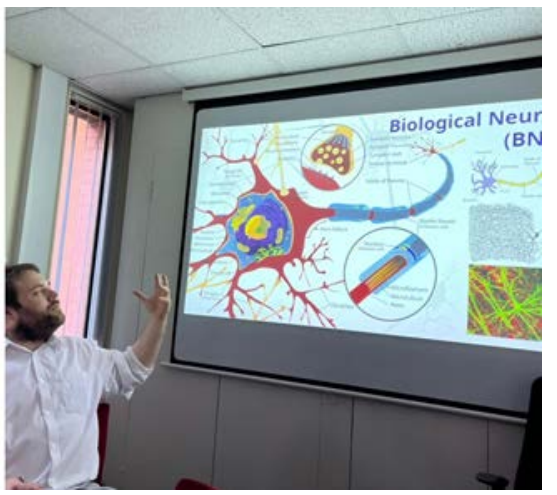
Matteo Gambella (Politecnico di Milano, Italy): *"NACHOS: Neural Architecture Search for Hardware Constrained Early Exit Neural Networks"*

Madhi Taheri (Taltech, Estonia & BTU Cottbus-Senftenberg, Germany): *"RL-Agent-based Early-Exit DNN Architecture Search Framework"*

Modhe Almelihi (University of Manchester, UK): *"Design Strategies for Adaptive Execution in Slimmable Neural Architectures"*

Rama Mounika Kodamanchili (Taltech, Estonia): *"Adaptive Fault Resilience for Early-Exit DNNs"*

Michalis Piponidis (University of Cyprus, Cyprus): *"Dynamic Early-Exit Convolutional Neural Networks for Edge Vision: The Benefits, The Challenges, and the Road Ahead"*



◆ **September 24 – Spiking Neural Network Day**

Edward Jones (University of Manchester): *"Biologically-Inspired Learning with SNNs"* (lectures and hands-on sessions)

Edward Jones (University of Manchester): *"Machine Learning with SNNs"* (lectures and hands-on sessions)

◆**September 25 – Neuromorphic Vision Day**

Computer Science Department Seminar

Guest lecture - Prof. Jelena Nikolić: *"Quantization and Pruning: Key Techniques for Neural Network Compression"*

AIDA4Edge short research-oriented presentations:

Prof. Aleksandra Jovanović: *"An Approach to Weight Representation in Artificial and Spiking Neural Networks"*

Junior Researcher Sofija Perić: *"SQNR and Experimental Analysis of the Power-of-Two 3-Bit Quantizer for Neural Network Weight Quantization"*

Prof. Dejan Ćirić: *"Case Studies on the Application of Supervised and Unsupervised Learning to Acoustic Data Analysis"*

Ph.D. student Tamara Milovanović: *"Dynamic by Design: Shaping the Next Generation of Edge AI"*

Edward Jones: *"Seeing with Events: A Practical Introduction to Processing Visual Events"* (hands-on training with event-based cameras)

◆ **September 26**

Rachel Cowen and Vidyadhar Peesapati (University of Manchester)*: "EDI Strategy and Athena Swan Progress and Actions*"

This short-term visit highlighted the importance of cross-institutional collaboration and provided valuable opportunities for knowledge transfer, training, and joint exploration of innovative AI methodologies**.**

We look forward to continuing this successful collaboration within the framework of the AIDA4Edge project**.**

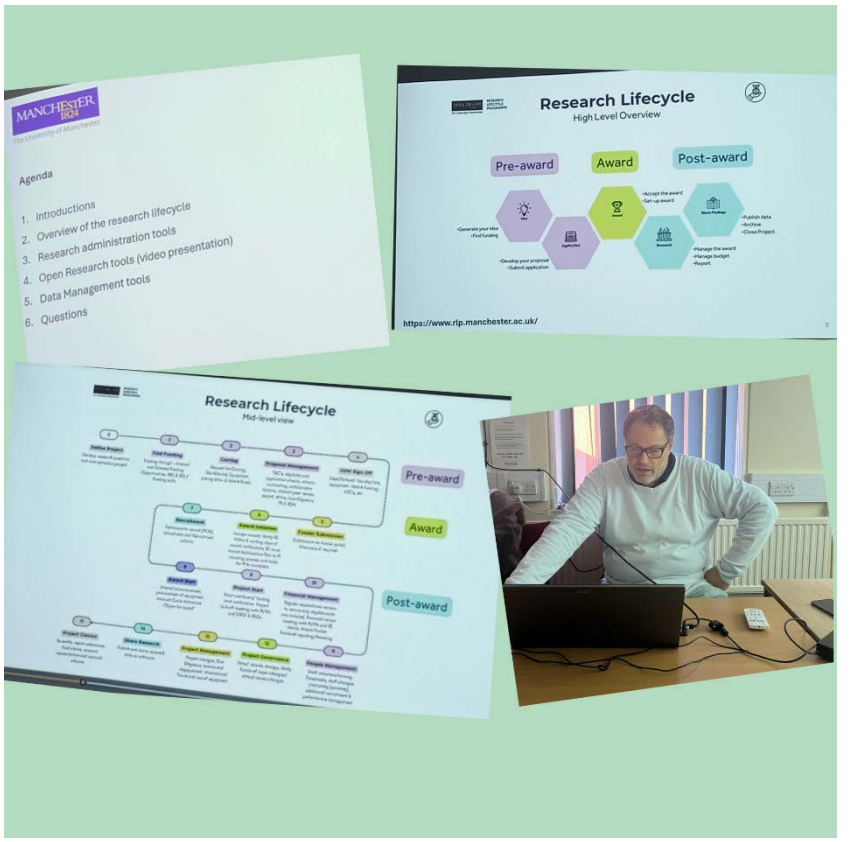
Research Culture Day at the University of Manchester

As part of the short-term visit of the University of Niš team to the University of Manchester, which focused on research management and administration, we participated in a wonderfully organized Research Culture Day. The discussions were particularly valuable for all of us, especially for the two members of the RMU unit, Sofija Perić and Nikola Vučić, from FEEUNI who attended.

Rachel Cowen and Vidyadhar Peesapati from the University of Manchester, School of Engineering, presented the EDI Strategy and Athena Swan Progress and Actions, highlighting the University's continuous efforts to promote gender equality, diversity, and inclusion within the research environment.

The session encouraged an open discussion on building a positive and supportive research culture that values collaboration, transparency, and well-being. Participants also shared insights into how institutional initiatives can strengthen the overall research ecosystem and foster excellence through inclusion.

Prof. Davide Bertozzi and a colleague from the Research Lifecycle Program at the University of Manchester delivered a presentation titled "*Supporting the Research Lifecycle: How Research Management Tools Are Used at The University of Manchester*." The session provided valuable insights into the tools, processes, and best practices that support the entire research lifecycle at the university.

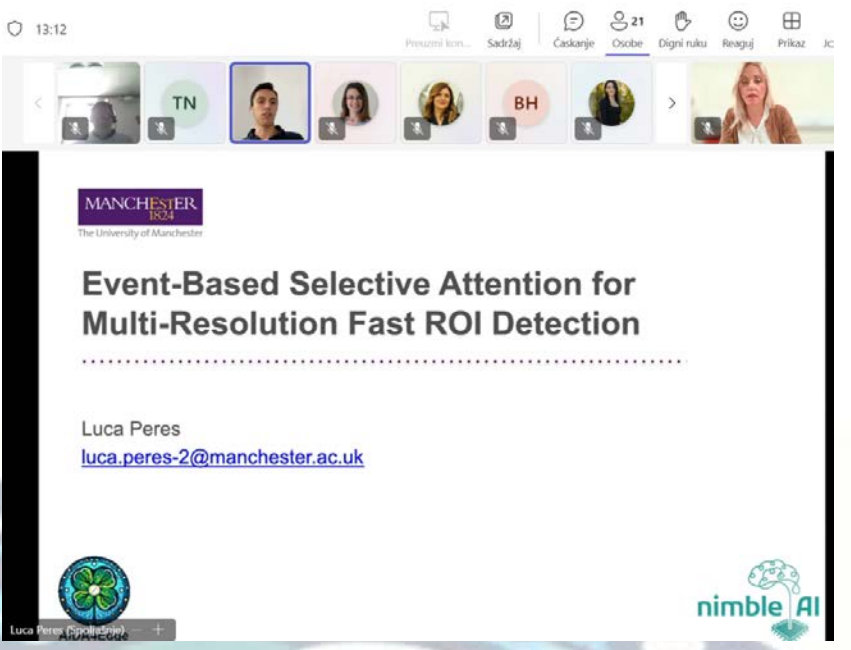


AIDA4Edge Webinar
Hosted by the University of Manchester

As part of the AIDA4Edge project, a technical webinar was held on September 26, 2025, featuring an insightful talk by Luca Peres from the University of Manchester, titled: "*Event-based Selective Attention for Multi-resolution Fast ROI Detection*"

With over 25 participants in attendance, the session provided valuable insights into event-based processing and efficient region-of-interest detection - a highly relevant topic for real-time edge AI systems.

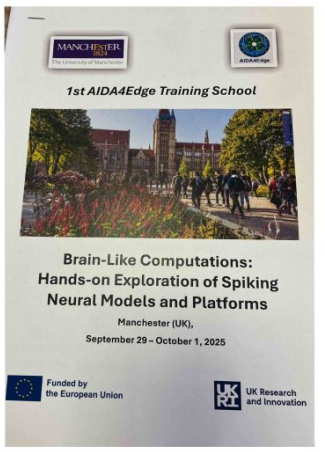
A big thank you to Luca and all attendees for making this webinar a success!

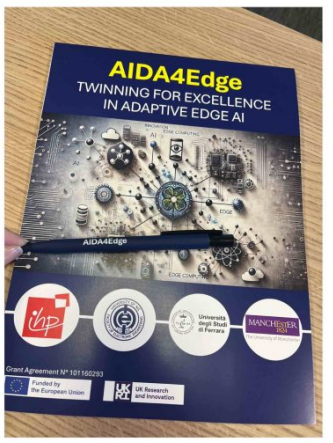


1st AIDA4Edge Training School on Brain-Like Computations: Hands-on Exploration of Spiking Neural Models and Platforms at the University of Manchester

From September 29 to October 1, 2025, the Faculty of Electronic Engineering team from the University of Niš had the pleasure of attending the 1st AIDA4Edge training school, held in the ATLAS room of the Kilburn Building, University of Manchester.

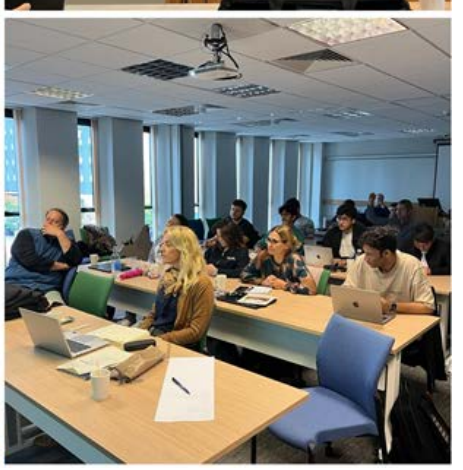
The training school, titled "*Brain-Like Computations: Hands-on Exploration of Spiking Neural Models and Platforms*," was thoughtfully designed and flawlessly organized by our partners from the University of Manchester – Davide Bertozzi, Oliver Rhodes, and Edward Jones.





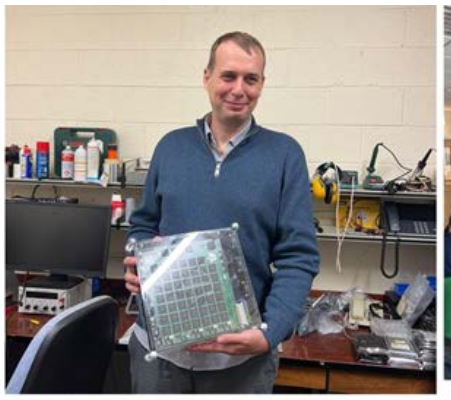
The first day started with a presentation of the AIDA4Edge project delivered by the project coordinator, Prof. Jelena Nikolić. The subsequent sessions were dedicated to exploring spiking neural networks (SNNs) across the stack, from theoretical models and simulations to software tools and hardware platforms. Edward Jones introduced the principles of neuromorphic computing, Oliver Rhodes presented tools for SNN simulation, and Davide Bertozzi discussed neuromorphic hardware platforms for SNN implementation. The day concluded with detailed hands-on training and simulation exercises led by Edward Jones.

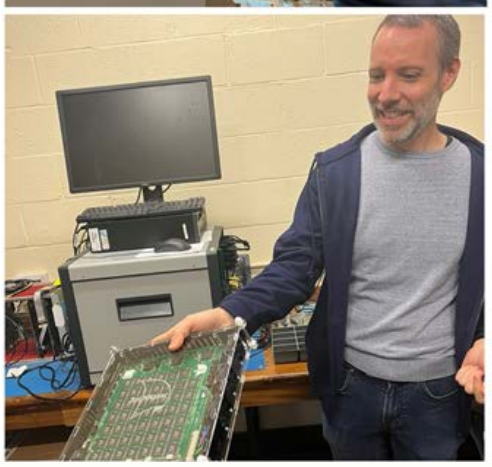
On the following day, we thoroughly enjoyed a rich and well-balanced program that combined inspiring lectures with engaging practical sessions. It was a special privilege to attend the lecture by Steve Furber, principal designer of the SpiNNaker large-scale neuromorphic supercomputer at the University of Manchester. His talk on the origins, vision, and groundbreaking capabilities of the SpiNNaker system was both insightful and inspiring, and our visit to this remarkable machine further deepened the impression. We have also learned about innovations in AI processing architectures presented by Markus Ulbricht from the IHP. Simon Davidson shared insights from the EU-funded CONVOLVE project, highlighting advances in low-power processing for IoT, while Andrew Rowley provided step-by-step guidance on implementing SNNs on the SpiNNaker platform through comprehensive hands-on tutorials.

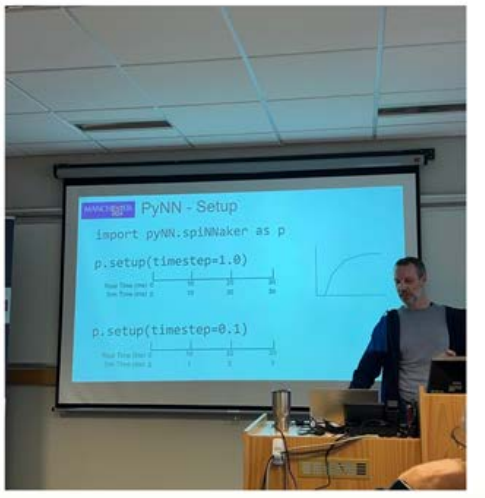


The final day opened with a captivating presentation by André Van Schalk on applications of event-based vision, followed by an equally fascinating talk by Oliver Rhodes about the Nimble AI project. Luca Peres then demonstrated paths towards a high resolution multimodal neuromorphic event set. The training school concluded with hands-on activities on dynamic vision sensing, organized by Edward Jones, whose exceptional expertise and dedication greatly contributed to the overall success and inspiring atmosphere of the training school.

Finally, we would like to express our sincere gratitude to our partners from the University of Manchester for carefully preparing the program, their willingness to share extensive knowledge, and their warm hospitality, which made this training school a truly memorable and enriching experience.







Special Session “Hardware and Software Solutions for Edge AI Applications” Organized at IEEE MIEL 2025 Conference by AIDA4Edge

CONFERENCE PROGRAMME

Thursday, October 16th

FACULTY OF ELECTRONIC ENGINEERING, Aleksandra Medvedeva 4, Niš

SPECIAL SESSION	HARDWARE AND SOFTWARE SOLUTIONS FOR EDGE AI APPLICATIONS Chairmen: J. Nikolić, Ž. Cojbašić	Room 155
9:00	**AIDA4Edge Project's Special Session on Hardware and Software Solutions for Edge AI Applications** Z. Perić[1], M. Dinčić[1], J. Nikolić[1], D. Danković[1], M. Anđelković[2], D. Bertozzi[3], R. Zese[4] [1] University of Niš, Serbia [2] IHP, Germany [3] University of Manchester, UK [4] University of Ferrara, Italy	
9:15	**A Resilient Processing Platform for 6G Wireless Communication Networks** M. Anđelković, R. Tariq Syed, J. Chen, F. Vargas, M. Ulbricht, M. Petri IHP, Germany	
9:30	**Experimental Evaluation of Neural Network Complexity in Constrained Hardware Environments** V. Sibinović, A. Jovanović, B. Veselić University of Niš, Serbia	
9:45	**Dynamic Neural Networks for Adaptive Edge AI: Techniques, Tools, and Development Directions** T. Milovanović[1], B. Predić[1], D. Bertozzi[2], Z. Perić[1], S. Perić[1], J. Nikolić[1] [1] University of Niš, Serbia [2] University of Manchester, UK	
10:00	**Federated Learning for Activity Recognition and Face Mask Detection on Edge AI Infrastructure** D. Stojanovic, T. Kocić, N. Stojanović University of Niš, Serbia	
10:15	**Explainable AI and Edge AI Integration for Hand Gesture Recognition in Industrial Robotics** E. Cojbašić, D. Stojanović, D. Rančić, N. Stojanović, Ž. Cojbašić University of Niš, Serbia	
10:30	**Coffee Break**	
11:00	**Performance Evaluation of Digital Multipliers for Application in Neural Network Accelerators** M. Marjanović[1], M. Anđelković[2], D. Danković[1], J. Nikolić[1], F. Vargas[2] [1] University of Niš, Serbia [2] IHP, Germany	
11:15	**Predictive Modeling of Irregular Time Series: Explainability and Edge Optimization Aligned with Industry 5.0** M. Tasic, I. Ciric, M. Ciric, M. Milić, B. Predić University of Niš, Serbia	

CONFERENCE PROGRAMME

Thursday, October 16th

11:30	**Comparison of Different TinyML Implementations for an Industrial Control System** E. Cojbasic, D. Rančić, A. Jovanovic, V. Sibinovic, Ž. Cojbašić University of Niš, Serbia	
11:45	**Statistical Analysis of Synaptic Weights in Spiking Neural Network Trained on the DVS128 Gesture Dataset** J. Nikolić[1], S. Tomić[2], A. Jovanović[1], Z. Perić[1], M. Dinčić[1], E. Jones[3], D. Bertozzi[3], R. Zese[4], M. Anđelković[5] [1] University of Niš, Serbia [2] Abu Dhabi Polytechnic, UAE [3] University of Manchester, UK [4] University of Ferrara, Italy [5] IHP, Germany	
12:00	**SQNR Analysis of Power-of-Two Level Quantizer and Integer 3 Quantizer** S. Perić[1], Z. Perić[1], A. Jovanović[1], J. Nikolić[1], R. Zese[2], O. Rhodes[3], A. Bizzarri[2] [1] University of Niš, Serbia [2] University of Ferrara, Italy [3] University of Manchester, UK	
12:15	**Golomb – Rice Coding for Efficient Compression of 8-bit Floating- Point Data** N. Vučić[1], Z. Perić[1], A. Jovanović[1], D. Ćirić[1], M. Dinčić[1], N. Simić[2], R. Zese[3], M. Favali[3] [1] University of Niš, Serbia [2] University of Novi Sad, Serbia [3] University of Ferrara, Italy	
12:30	**Edge Computing for Sports Analytics: AI-Powered Basketball Score Detection on Raspberry Pi 5** M. Milić, P. Ristić, I. Ćirić, N. Ivačko, D. Krstić University of Niš, Serbia	
12:45	**Implementation of the Axon Chess System on Modern Hardware Platforms** V. Vučković University of Niš, Serbia	
WORKSHOP	**MODEL-BASED ENGINEERING FOR MICROGRIDS: FROM CONCEPT TO COMMISSIONING WITH A UNIFIED TYPHOON HIL TOOLCHAIN**	Room 156
10:00-14:00	Secure Control of Inverters for Mobile Microgrids Workshop	
13:00	**Conference Closing**	Room 155
14:00	**Lunch**	Nišlijska mehana

Last week, the IEEE MIEL 2025 Conference was held at the Faculty of Electronic Engineering, University of Niš, Serbia. Within this event, the AIDA4Edge project organized a Special Session on “*Hardware and Software Solutions for Edge AI Applications*” on Thursday, October 16th. https://miel.elfak.ni.ac.rs/SpecialSession

The special session featured 14 insightful and topical presentations covering various aspects of AI at the edge. These included the presentation of the editorial paper entitled AIDA4Edge Project's Special Session on Hardware and Software Solutions for Edge AI Applications, as well as talks on neural network quantization, ANN adaptation strategies, digital multiplier architectures for neural network accelerator implementations, hardware–software co-design, federated learning, spiking neural network models, and explainable AI for edge computing platforms.

We would like to express our sincere gratitude to the conference organizers and to all session participants and contributors for their valuable work and engaging discussions that made this event a success.

AIDA4Edge Project Presented to Students from the IEEE Student Branch of Aristotle University of Thessaloniki at MIEL Conference

During the MIEL Conference held at the Faculty of Electronic Engineering, University of Niš, a dedicated session was organized to introduce the AIDA4Edge project to visiting students from the IEEE Student Branch of Aristotle University of Thessaloniki.

The project coordinator, Prof. Jelena Nikolić, delivered a presentation outlining the project's main ideas, objectives, consortium members, and the ongoing research activities within AIDA4Edge.

The presentation was followed by an engaging discussion with the students, who showed great interest in the project topics and asked many insightful questions about the research challenges and potential applications.

This event provided an excellent opportunity to promote the goals of AIDA4Edge and to inspire young researchers to explore the exciting field of hybrid neural networks, aiming to combine the advantages of both spiking and artificial neural networks and to develop AI pipelines suitable for deployment on edge devices.

The event also highlighted the importance of Horizon Europe Twinning projects in strengthening research excellence, fostering international collaboration, and supporting the integration of research communities into the wider European Research Area.

Our Research Presented at TELSIKS 2025

During the TELSIKS 2025 Conference, held from October 22 to 24 at the Faculty of Electronic Engineering, University of Niš, Junior Research Assistant Sofija Perić presented the paper titled "*Performance Comparison of Dlfloat16 and Bfloat16 Binary Formats*".

The paper was prepared in collaboration with the Faculty of Electronic Engineering and the IHP – Leibniz Institute for High Performance Microelectronics.

The research focuses on analyzing and comparing the performance of Dlfloat16and Bfloat16 binary formats, which are becoming increasingly important for AI and edge computing applications.

It was a truly valuable experience to attend the conference, hear diverse research contributions, and engage in discussions on topics related to artificial intelligence,quantization, and efficient neural network implementations.

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AIDA4Edge Project Hosts Its First Webinar on Research Management and Administrative Skills

On October 27, from 10:00 a.m. to 12:00 p.m, the AIDA4Edgeproject held its first webinar dedicated to research management and administrative skills, focusing on the topic: "*Horizon Europe: Consortium Agreement*."

The session was delivered by Silvia Raucci, Head of the Office for International Research and Project Design at the University of Ferrara (UNIFE).

The webinar provided valuable insights into the Consortium Agreement (CA)— the binding document that defines the rights, obligations, and roles of partners in Horizon Europe collaborative projects. The objective was to enhance participants' understanding of how to draft a valid and effective CA for successful project implementation.

The event was held in online format and marked an important step in strengthening administrative and management capacities across the AIDA4Edge consortium.

AIDA4Edge
First Webinar on Research Management and Administrative Skills Topics

Horizon Europe: Consortium Agreement
Monday, October 27, from 10am to 12am CEST

The Consortium Agreement (CA) is the binding agreement that Horizon Europe project partners must sign in order to regulate rights, obligations and roles within the partnership. The objective of the meeting is to transfer the knowledge necessary for drafting a valid and appropriate consortium agreement for collaborative projects within Horizon Europe.

Speaker: Silvia Raucci
Head of "Ufficio Ricerca Internazionale e Progettazione" (Office for International Research and Project Design)

Access link

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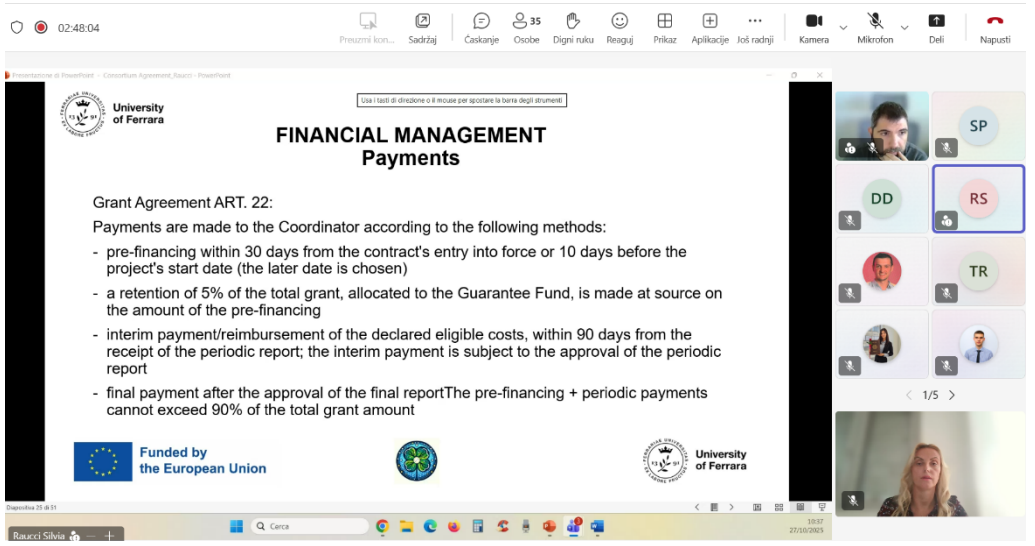


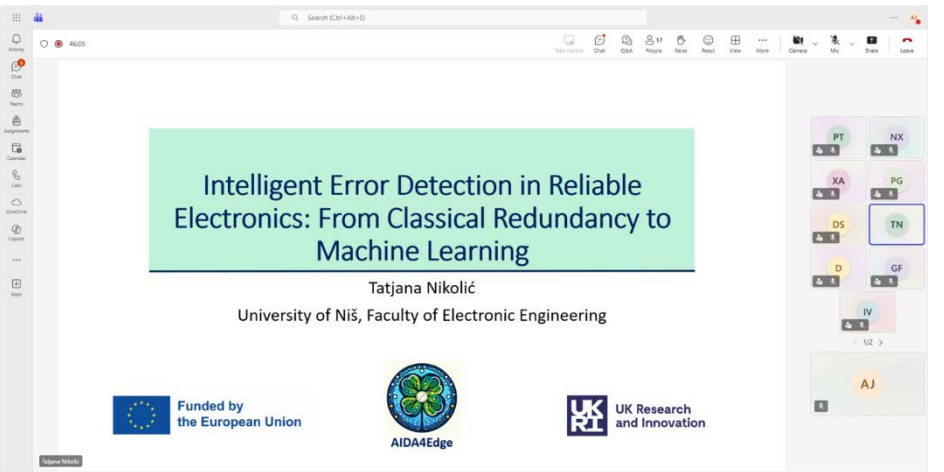
A Great Opportunity to Strengthen Networking at the Webinar "Bridging EU Innovation in Reliable Electronics Design," Hosted by the TWIN-RELECT Project

On November 7, Prof. Tatjana Nikolić, a team member of the AIDA4Edge project, participated in the webinar "Bridging EU Innovation in Reliable Electronics Design," hosted by our stakeholders from the TWIN-RELECT project.

Prof. Tatjana Nikolić delivered a presentation titled "*Intelligent Error Detection in Reliable Electronics: From Classical Redundancy to Machine Learning*." She discussed how incorporating machine learning into error detection enables fault prediction before occurrence, adaptive response during operation, and reduced hardware redundancy, resulting in lower implementation cost, power consumption, and silicon area, which are key factors for efficient AI deployment at the edge.

The webinar gathered representatives from several EU-funded projects - TWIN-RELECT (University of Thessaly), COIN-3D (Trinity College Dublin), RADNEXT (CERN), RESIST (University of Niš), HCCC (University of West Attica), and our AIDA4Edge (University of Niš) - who shared their experiences in research funding and managing and research outcomes in the field of reliable electronics design.

We sincerely thank the TWIN-RELECT team for the kind invitation to participate in this fruitful event, which provided an excellent opportunity to strengthen ties between our projects.



1st Stakeholder Forum – Knowledge Transfer from Research to Market in (Edge) AI

The first Stakeholder Forum of the AIDA4Edge project brought together 30 participants (14 onsite, 16 online). The event featured 9 speakers from Serbia, North Macedonia, and Germany, sharing expertise on transferring research into market-ready (Edge) AI solutions and fostering collaboration among academia, industry, and innovation-support organizations. We are proud and grateful to our stakeholders for their active participation in this event.

We had the pleasure of hearing the following presentations:

Prof. Milan Dinčić – Faculty of Electronic Engineering, University of Niš & AIDA4Edge Project | Showcasing the Potential of the AIDA4Edge Project

Prof. Vlado Delić – University of Novi Sad & AlfaNum | Bridging the Gap: From Academic Research to Market-Ready Speech AI

Milan Grujev – Institute for Artificial Intelligence R&D of Serbia & ARTIFACT Project | Smart Sensors, Smarter Environment: Edge AI and the Future of Sustainable Environment

Prof. Živko Kokolanski – "Ss. Cyril and Methodius" University, Skopje & INNOFEIT | INNOFEIT European Digital Innovation Hub: One-Stop Shop for Digital and Green Transformation

Miloš Marković – ProMetronics GmbH (Germany) | Industrial AI: From Innovation to Production – A Startup Perspective

Petar Pejić & Toplica Jakimov – Beehold | Beehold's Experiences in Turning AI Research into Commercial Impact

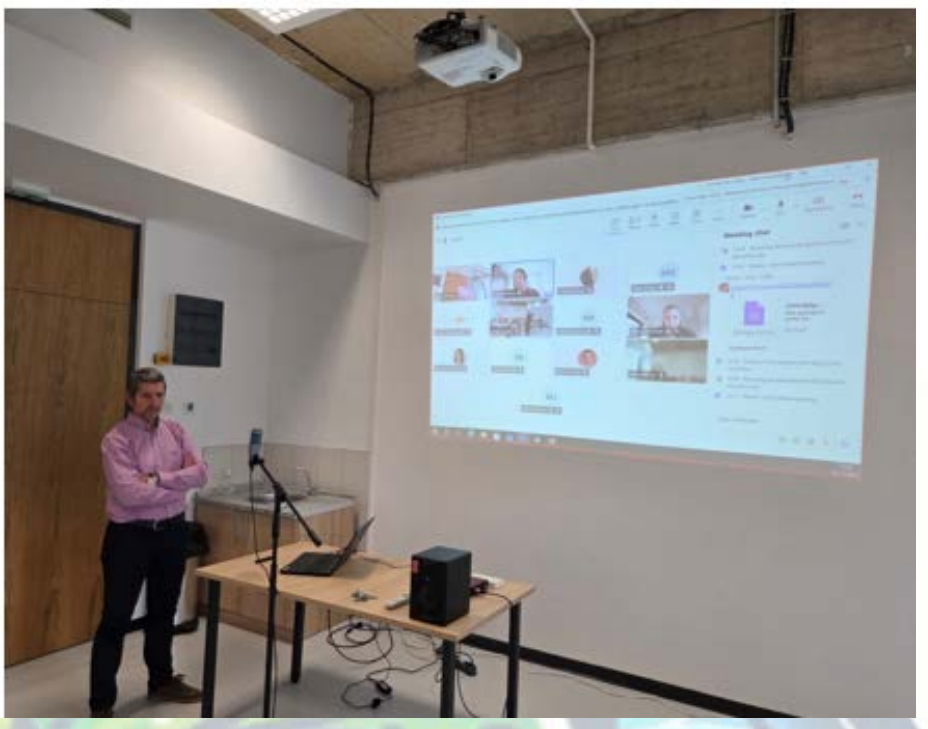
Aleksandra Ristić – Science and Technology Park Niš | From Research to Paid Pilots: How Support Programs Enable AI Commercialization

Danijela Vučić – Europe House Niš | Europe House Niš: Connecting EU Opportunities, Knowledge & Innovation

The forum concluded with a very lively discussion, in which stakeholders actively engaged, sharing insights, asking questions, and exploring opportunities for collaboration. During the discussion, it was highlighted that limitations such as limited access to real industry problems, lack of real-world testing, and weak business and market understanding pose challenges in transforming AI research into commercial solutions.

Participants also learned about numerous opportunities for applying for EU project funding, with insights on how these instruments can support research and commercialization in the Edge AI domain.

The event emphasized the importance of structured knowledge transfer, cross-sector cooperation, and support mechanisms to accelerate the commercialization of Edge AI research. It provided a valuable platform for dialogue, exchange of best practices, and strengthening the regional innovation ecosystem.



New Highlights from AIDA4Edge Publications

The AIDA4Edge team has expanded its publication record. Take a look at our newest papers.

1. Marko Andjelkovic, Rizwan Tariq Syed, Alessandro Veronesi, Fabian Vargas, Markus Ulbricht, Leticia Bolzani Poehls, Milos Krstic, Davide Bertozzi, Edward G. Jones, Oliver Rhodes, Riccardo Zese, Michele Favalli, Alice Bizzarri, Evelina Lamma, Marco Gavanelli, Elena Bellodi, Zoran Peric, Jelena Nikolic, Milan Dincic, Aleksandra Jovanovic, Dejan Ciric, Nikola Vucic, Sofija Peric, Jelena Jovanovic, Milica Stojanovic, Tatjana Nikolic, Goran Nikolic, Jelena Nedeljkovic, Danijel Dankovic, Emilija Zivanovic, Milos Marjanovic, Sandra Veljkovic, Nikola Mitrovic, Bratislav Predic, Tamara Milovanovic, "AIDA4Edge: Twinning for Excellence in Adaptive Edge Artificial Intelligence", 28th Euromicro Conference Series on Digital System Design (DSD 2025), Salerno, Italy, September 10-12, 2025.
https://doi.org/10.1109/DSD67783.2025.00031

2. Zoran H. Perić, Milan R. Dinčić, Jelena R. Nikolić, Danijel M. Danković, Marko Andjelković, Davide Bertozzi, Riccardo Zese, "AIDA4Edge Project's Special Session on Hardware and Software Solutions for Edge AI Applications", Proc. 2025 IEEE 34th International Conference on Microelectronics, Nis, Serbia, October 13-16, 2025, pp. 361-362.
https://doi.org/10.1109/MIEL66332.2025.11261134

3. Jelena Nikolić, Stefan Tomić, Aleksandra Jovanović, Zoran Perić, Milan Dinčić, Edward Jones, Davide Bertozzi, Riccardo Zese, Marko Andjelković, "Statistical Analysis of Synaptic Weights in Spiking Neural Network Trained on the DVS128 Gesture Dataset", Proc. 2025 IEEE 34th International Conference on Microelectronics, Nis, Serbia, October 13-16, 2025, pp. 403-406.
https://doi.org/10.1109/MIEL66332.2025.11261196

4. Sofija Perić, Zoran Perić, Aleksandra Jovanović, Jelena Nikolić, Riccardo Zese, Oliver Rhodes, Alice Bizzarri, "SQNR Analysis of Power-of-Two Level Quantizer and Integer 3 Quantizer", Proc. 2025 IEEE 34th International Conference on Microelectronics (MIEL 2025), Nis, Serbia, October 13-16, 2025, pp. 407-410.
https://doi.org/10.1109/MIEL66332.2025.11261041

5. Nikola Vučić, Zoran Perić, Aleksandra Jovanović, Dejan Ćirić, Milan Dinčić, Nikola Simić, Riccardo Zese, Oliver Rhodes, Michele Favalli, "Golomb–Rice Coding for Efficient Compression of 8-bit Floating-Point Data", Proc. 2025 IEEE 34th International Conference on Microelectronics (MIEL 2025), Nis, Serbia, October 13-16, 2025, pp. 411-414.
https://doi.org/10.1109/MIEL66332.2025.11260994

6. Tamara Milovanović, Bratislav Predić, Davide Bertozzi, Zoran Perić, Sofija Perić, Jelena Nikolić, "Dynamic Neural Networks for Adaptive Edge AI: Techniques, Tools, and Development Directions", Proc. 2025 IEEE 34th International Conference on Microelectronics (MIEL 2025), Nis, Serbia, October 13-16, 2025, pp. 373-378.
https://doi.org/10.1109/MIEL66332.2025.11261140

7. Milos Marjanovic, Marko Andjelkovic, Danijel Dankovic, Jelena Nikolic, Fabian Vargas, "Performance Evaluation of Digital Multipliers for Application in Neural Network Accelerators", Proc. 2025 IEEE 34th International Conference on Microelectronics (MIEL 2025), Niš, Serbia, October 2025, pp. 389-392.
https://doi.org/10.1109/MIEL66332.2025.11260925

8. Marija Petrović, Nevena Veselinović, Lana Tasić, Dunja Djordjević, Nikola Mitrović, Miloš Marjanović, Emilija Živanović, Danijel Danković, "Investigation of NBTI and Relaxation Effects in p-Channel Power VDMOS Transistors", Proc. 2025 IEEE 34th International Conference on Microelectronics (MIEL 2025), Niš, Serbia, October 2025, pp. 73-77.
https://doi.org/10.1109/MIEL66332.2025.11261053

9. Dunja Đorđević, Lana Tasić, Nevena Veselinović, Marija Petrović, Sandra Veljković, Nikola Mitrović, Miloš Marjanović, Emilija Živanović, Goran Ristić, Danijel Danković, "Investigation of the Self-Heating Effect in a P-Channel VDMOS Transistor after NBT Stress and Relaxation", Proc. 2025 IEEE 34th International Conference on Microelectronics (MIEL 2025), Niš, Serbia, October 2025, pp. 78-82.
https://doi.org/10.1109/MIEL66332.2025.11261184

10. Nikola Mitrović, Sandra Veljković, Miloš Marjanović, Emilija Živanović, Marko Anđelković, Goran Ristić, Danijel Danković, "Examination of TinyML Approach in ESP32-Based NFC Applications", In Proceedings of the 17th International Conference on Advanced Technologies, Systems and Services in Telecommunications (TELSIKS 2025), Niš, Serbia, October 22-24, 2025, pp. 193-196.
https://doi.org/10.1109/TELSIKS65061.2025.11240958

11. Zoran Perić, Bojan Denić, Sofija Perić, Milan Dinčić, Marko Anđelković, "Performance Comparison of Dlfloat16 and Bfloat16 Binary Formats", In Proceedings of the 17th International Conference on Advanced Technologies, Systems and Services in Telecommunications (TELSIKS 2025), Niš, Serbia, October 22-24, 2025.
https://doi.org/10.1109/TELSIKS65061.2025.11240708

12. Milan R. Dinčić, Zoran H. Perić, Dragan B. Denić, Bojan D. Denić, Sofija Z. Perić, "Simplified Performance Evaluation of Floating-Point Formats for Implementing Intelligent Measurement Systems", Transactions of the Institute of Measurement and Control, 2025.
https://doi.org/10.1177/01423312251319575

Thank you for your interest in the AIDA4Edge project. We look forward to sharing more updates with you in the future. Stay connected!
www.aida4edge.elfak.rs

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