TWINRELECT

WEBINAR

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FROM TWINNING TO EXCELLENCE: SHARING KNOWLEDGE AND STRENGTHENING IMPACT

October 22-23, 2026

09:00AM - 11:15PM (CET)

Co-funded by the European Union

UK Research and Innovation

PARTNERS

The University of Manchester

PROGRAM

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Day 1 – Thursday, 22 October 2026

09:00 - 09:10	**Opening**
09:10 - 09:30	**TWIN-RELECT** Pelopidas Tsoumanis, University of Thessaly, Greece
09:30 - 09:50	**COIN-3D** George Floros, Trinity College Dublin, Ireland
09:50 - 10:10	**AIDA4EDGE** Nikola Vučić, University of Niš, Serbia
10:10 - 10:20	**Break**
10:20 - 10:40	**TESTARE** Maria Hadjipanayi, University of Cyprus, Cyprus
10:40 - 11:00	**QUEST** Viktor Ivády, Eötvös Loránd University, Hungary
11:00 - 11:15	**Q&A and Discussion**

All times are in Central European Time (CET, Europe/Paris)

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Day 2 – Friday, 23 October 2026

09:00 - 09:10	**Opening**
09:10 - 09:30	**ARTIFACT** Milena Tamburic, Institute for Artificial Intelligence Research and Development of Serbia, Serbia
09:30 - 09:50	**TWINSOLARSURF** Pandora Psyllaki, University of West Attica, Greece
09:50 - 10:10	**TETHYS** Andreas Paradeisiotis, University of Cyprus, Cyprus
10:10 - 10:20	**Break**
10:20 - 10:40	**TWIN-IT-ROMANS** Mehmet İsmet Can Dede, Izmir Institute of Technology, Turkey
10:40 - 11:00	**SKILLAB** Dimitrios Christos Kavargyris, Aristotle University of Thessaloniki, Greece
11:00 - 11:15	**Q&A and Discussion**

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Twining for Excellence in Reliable Electronics: With the introduction of advanced semiconductor technologies, the design of reliable electronic systems has become more challenging, requiring novel analysis and design methods and tools. The ultimate goal of TWIN-RELECT project is to boost the scientific and innovation capacity of UTH in the design of reliable electronic systems through strategic networking with three advanced partners: IHP - Institute for High Performance Microelectronics from Germany, National Center for Scientific Research (CNRS) from France, and University of Manchester from United Kingdom. - https://twin-relect.uth.gr/

The **COIN-3D project** aims to strengthen strategic networking and knowledge exchange between UTH and leading European research institutions to enhance research management and commercialization capacities in 2.5/3D chiplet architectures. By fostering innovation and aligning with the objectives of the European Chips Act, COIN-3D seeks to position UTH as a key player in the global semiconductor research ecosystem. The project includes extensive twinning activities and a strong collaboration framework supported by core research on 2.5/3D VLSI systems reliability. Its main goal is to develop advanced EDA tools that integrate novel algorithms for physical- and system-level reliability assessment, power delivery optimization, and aging modelling—pushing forward the state of the art in reliable 3D VLSI design. - https://coin3d-project.eu/

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AIDA4Edge

AIDA4Edge aims to strengthen collaboration between the Coordinator (FEEUNI) and partners IHP, UoM, and UNIFE to achieve Edge AI excellence. The project tackles running complex AI on resource-limited Edge devices. UNIFE will optimize ANN hyperparameters, IHP will enhance power efficiency with multi-core AI accelerators, UoM will combine SNNs and ANNs to maintain accuracy and exploit sparsity, and FEEUNI will apply quantization for compression. Knowledge transfer will help FEEUNI build research capacity, become a center of excellence, and strengthen management skills, empowering participation in new research and boosting scientific and economic progress in Serbia. - https://aida4edge.elfak.rs/

TESTARE (Twinning for excellence in TEsting new generation PV: Long-term STAbility and field REliability) is a Horizon Europe Twinning project focused on advancing the testing, long-term stability, and field reliability of emerging photovoltaic (PV) technologies, particularly perovskite-based solar cells and modules. The project aims to strengthen the research and innovation capacities of the DegradationLab at the University of Cyprus (UCY) through knowledge exchange, specialized training, staff mobility, and collaboration with leading research institutions. TESTARE focuses on developing advanced characterization methods, improving indoor and outdoor testing protocols, and addressing key challenges related to the performance and durability of next-generation PV technologies. The project is coordinated by the University of Cyprus (UCY), with IMEC (Belgium), Fraunhofer (Germany), and Ben-Gurion University of the Negev (Israel) as project partners. - https://www.testare.eu/

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QUEST is a Horizon Europe Twinning project aimed at strengthening the scientific excellence and innovation capacities of Eötvös Loránd University (ELTE) in Hungary in the field of quantum computing. The project focuses on developing a quantum reservoir computing system based on silicon carbide defect qubits, with the potential to improve computational speed and energy efficiency compared to conventional machine learning approaches. Through knowledge exchange, specialized training, and collaboration with leading European research institutions, QUEST seeks to advance research in quantum technologies, particularly in qubit fabrication, spin dynamics, and quantum system characterization. The project is coordinated by Eötvös Loránd University (Hungary), with Linköping University (Sweden), Loughborough University (UK), Aalto University (Finland), and Intelligentsia Consultant SARL (Luxembourg) as partners. - https://quest.elte.hu/

ARTIFACT (ARTificial Intelligence for Flood Resilient Infrastructure) is a Horizon Europe Twinning Green Deal project focused on the use of artificial intelligence (AI) and nature-based solutions (NBS) for urban flood resilience. The project explores AI-based approaches to urban flood modelling, prediction and management, while also strengthening research and innovation capacities through knowledge exchange, training and collaboration. ARTIFACT is coordinated by the Institute for Artificial Intelligence Research and Development of Serbia (IVI), with Delft University of Technology (TU Delft), IHE Delft Institute for Water Education (IHE Delft), and Hamburg University of Technology (TUHH) as project partners. - https://artifact-project.com/

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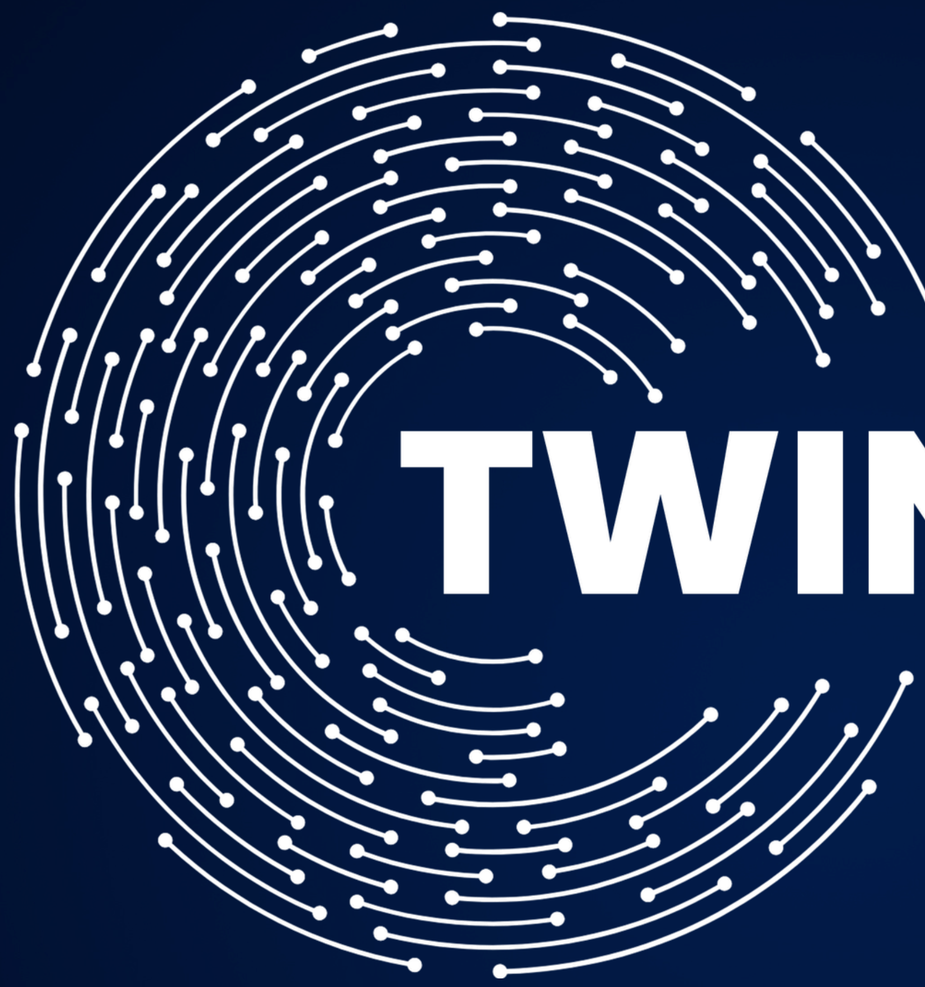
TWINSOLARSURF (Twinning for Solar Energy-driven Surface Engineering of Metallic Parts) focuses on surface modification to enhance the performance and longevity of metallic parts operating under harsh conditions involving wear, abrasion, erosion, and cavitation. Addressing these challenges is crucial as industries pursue sustainable solutions amid global climate concerns. The EU-funded project brings together Greece's University of West Attica's Triblab with leading institutions, including Germany's DLR and Spain's CIEMAT-Plataforma Solar de Almería. TWINSOLARSURF aims to develop an innovative method for reinforcing large metallic surfaces using concentrated solar energy as an alternative to conventional hardfacing processes. This green, energy-efficient approach improves material resilience in aggressive environments while supporting Europe's green technology objectives. - https://twinsolarsurf.uniwa.gr/

The **TETHYS** project ("Twinning for Excellence in Floating Wind Turbines and Hydrogen Systems") aims to strengthen the research and innovation capacities of the University of Cyprus (UCY) in offshore floating wind and green hydrogen (FOW-H_2) integration in the Mediterranean. Through collaboration with Università degli Studi di Firenze (UNIFI - Italy), Aarhus University (Denmark), and NEEST (Greece), the project promotes knowledge exchange, specialized training, and research excellence across three key areas: Component Design, System Integration, and Hydrogen Utilization. TETHYS focuses on optimizing floating wind turbine designs and hydrogen storage systems for Mediterranean conditions, supported by AI/ML-driven Digital Twin technologies. Key activities include staff exchanges, summer schools, training webinars, early-career researcher internships, and a hydrogen refueling station pilot. - https://www.ucy.ac.cy/tethys/

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TWIN-IT-ROMANS (Twinning IZTECH in Robotic Manufacturing Systems) is a Twinning project aimed at strengthening the research and innovation capacities of Türkiye's Izmir Institute of Technology (IZTECH) in robotic manufacturing systems through collaboration with leading European research institutions. The project focuses on developing a lightweight, portable, and cost-effective robotic manufacturing cell capable of performing precise manufacturing and quality control. Through knowledge exchange, interdisciplinary collaboration, and enhanced research management capabilities, TWIN-IT-ROMANS seeks to advance robotic manipulation technologies and their integration into industrial applications. The project aims to bridge the research and innovation gap between Türkiye and the EU, while promoting scientific excellence, competitiveness, and sustainability in the European manufacturing sector. - https://twin-it-romans.iyte.edu.tr/

SKILLAB (Skills Intelligence and Labour Market Analytics) is a Horizon Europe research project focused on understanding and anticipating changing skill needs in the European labour market. The presentation will introduce the project's data-driven approaches for analysing skills and occupations, identifying skill gaps, monitoring labour-market trends, and forecasting future skill demand. It will also highlight how AI, machine learning, and large-scale labour-market data can support individuals, organisations, and policymakers in navigating a rapidly evolving world of work. A mini-demonstration of the SKILLAB platform, which are expected to be released at the end of October, will also be presented, together with initial results from advanced statistical analyses of labour-market data. Finally, a discussion will be held on the practical applications of the platforms and how these results can be leveraged to support different labour-market stakeholders. - https://skillab-project.eu/



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