

ISCSI 2026

International Conference on Industry Sciences and Computer Sciences Innovation

May 20–22, 2026

May 20, 2026 — Opening Day

16:00	Opening Session – Organization Chair Prof. Nuno Mateus-Coelho <i>Official opening ceremony of the conference</i> Join Auditorium (Teams)
16:30	Keynote 1 - “General and AI Agents Cybersecurity” Prof. Nuno Mateus-Coelho Join Auditorium (Teams)
17:15	Keynote 2 – “The Realm of Quantum Computing” Prof. Hamed Taherdoost Join Auditorium (Teams)
18:30 – 19:30	Welcome Cocktail & Cultural Event with “Group Folclórico Ilha Verde”



ISCSI - INTERNATIONAL CONFERENCE
on Industry Sciences & Computer Sciences Innovation

May 21, 2026 — Day 1

09:30 – 11:00

Parallel Sessions 1A · 1B · 1C

Session 1	#	Session 1A <small>Virtual</small> <small>Room 1 – Virtual Link</small>	Session 1B <small>Virtual</small> <small>Room 2 – Virtual Link</small>	Session 1C <small>In-Person</small> <small>Room 3 – In-Person & Virtual Link</small>
Session 1	1	A Survey of Global AI Education <i>Ioannis Mademlis, Dimitria Ioanna Briza, Alexandros Zamioudis, Ioannis Pitas</i>	What is Expected of Industry 4.0? An Analysis of the Maturity Assessment of Companies through Questionnaires <i>Maurizio Naldi, Marta Flamini, Paolo Fantozzi</i>	A Two-Stage Heuristic for a Real-Time Scheduling problem in Pharmaceutical Manufacturing <i>Marta Flamini, Ettore Di Micco, Gaia Nicosia, Arianna Freda</i>
	2	Distributed Deep Learning Under Resource Constraints: A PRISMA-Guided Systematic Review <i>Abou Dramane SANOU, Borli Michel Jonas SOME</i>	Machine Learning Driven Predictive Modeling of Coronary Heart Disease for Medical Imbalance Data <i>Mala H. Mehta, Falguni Patel</i>	The enhanced eye for managing natural disasters <i>Antonio Filograna, Francesco Arigliano, Filip Sever, Viktor Bezsmertnyi, Vasileios Mygdalisc, Ioannis Pitas</i>
	3	Geopolitical Power Analysis <i>Ioannis Pitas, Dimitris Oikonomou, Apostolos Apostolidis</i>	SOS+Vida: A Mobile-Based Community First-Responder System for Out-of-Hospital Cardiac Arrest <i>Ricardo Brandão, Pedro Leite, Gabriel Ferreira, José Monteiro</i>	AI-Enabled Decision Support for Supply Chain Resilience: Detecting Port Throughput Anomalies under Global Pressure <i>Patrick Brandtner, Franz Staberhofer</i>
	4	Conceptualising Digital Sovereignty in the Age of Artificial Intelligence: A Systematic Literature Review <i>Gideon Mekonnen Jonathan, Josue Kuika Watat, Erik Perjons</i>	Swarm Intelligence in Bio-inspired Multi-Agent Systems for Adaptive Healthcare Robotics <i>Hamed Taherdoost, Mitra Madanchian</i>	Exploring Use of AI-Agents in a Mobile-first Crowdsourcing Platform for Citizens during Disaster Response <i>Zoltán Balogh, Emil Gatia, Vladimir Hudek</i>
	5	From Economic Statecraft to Military Readiness: The Impact of Weaponized Economics on Portuguese Defense Planning <i>Rafael Silva, João Reis</i>	QoS-aware MAPPO Framework for Anomaly Mitigation in 5G Vehicular Edge Networks <i>Peyman Eftekhari, Mohammad Monsef, seyed Kasra Mortazavi, Martin Gebser, kyandoghere Kyamakya</i>	
	6	The Relevance of Integrated National Health Information System on Health Services Coverage in Nigeria <i>Bayo Mohammed Onimode, Hyacinth C., Inyama, Muhammad Bashir Abdullahi, Abdulfatai Atte Momoh, Solomon. A. Adepoju, John Kolo John Kolo, Alhassan1</i>	Assessing the Metrics of Trustworthiness in Artificial Intelligence Hamed Taherdoost	

11:00 – 11:30

☕ Coffee Break

11:30 – 13:00

Parallel Sessions 2A · 2B · 2C

Session 2	#	Session 2A <small>Virtual</small> Room 1 – Virtual Link	Session 2B <small>Virtual</small> Room 2 – Virtual Link	Session 2C <small>In-Person</small> Room 3 – In-Person & Virtual Link
Session 2	1	SecOC-Inspired Authentication Approach for CAN, CAN-FD, and Automotive Ethernet <i>Prabha C Nissimagoudar, Abhijeet Vinod Naik, Amirsohel S Nadaf, Vinayak Ganjihal, Shrinidhi Sunadhali, Nalini C Iyer</i>	A Computational Framework for Collaborative Platform Integration in Higher Education Ecosystems <i>Ana Elizabeth Moncayo Peña, Augusto Paolo Bernal Parraga, Nelia González de Pirela</i>	Development of Circular Economy and Eco-Innovation <i>Olga Regina Šostak, Eligijus Toločka, Augustinas Maceika, Andrej Bugajev</i>
	2	Securing Intra-Vehicular Communication Using Cryptographic Primitives: ECDSA-Based Secure Boot for Automotive ECUs <i>Bhagyashree K, Dr. Nalini Iyer, Dr. Ujwala Patil, Shraddha H</i>	A Machine-Learning-Based Decision-Support Study on BTC/USDT <i>Luís Ferreira, Rafael Torres, Nuno Coelho</i>	3D Convolutional Neural Networks for Mineral Phase Classification in EDS Data from Unpolished Forensic Soil Samples <i>Vojtech Myska, Martin Jonak, Jan Dorazil, Radim Burget, Anzhelika Mezina, Marek Kotrly, Ivana Turkova</i>
	3	Women’s Leadership Styles in the Automotive Industry: A Qualitative Case Study <i>Carlos Miguel Oliveira, Juliana Azevedo</i>	A Structured Work-Based Learning Model in Hospitality Education: Bridging Curriculum and Real-World Practice through In-Situ Integration <i>Ricardo Lanção, Mónica Santos, Susanne Graaf, Firmino Oliveira da Silva</i>	Low-Severity Fault Diagnosis in Gas Turbines with Machine and Deep Learning Models <i>Francisco Mugica, Julio A. Martínez Cuautli, Ángela Nebot, Igor Loboda</i>
	4	KTTG Mobile Tourism App: Personalized Travel Experiences in Kuala Terengganu via Content-Based Filtering and Haversine Formula <i>Muhamad Haikal Abd Halid, Wan Safra Diyana Wan Abdul Ghani</i>		On-Premises Multi-Agent LLM Support for Oncology Multidisciplinary Teams: Pipeline Design and Blinded Vignette Evaluation <i>Radim Burget, Teodor Staneek, Nela Burgetova, Anzhelika Mezina, Vojtech Myska, Otto Dostal</i>
	5	Feasibility-Preserving GA for Fixed-Time Routing <i>Konstantinos Domdouzis, Miguel Salas, Elizabeth Uruchurtu</i>	Assessing the Writing Performance of University Students in EFL Contexts Using AI-Assisted Writing Tools: A Hybrid Quasi-Experimental and Regression Analysis <i>Frenz Djaxxas Clorion, Ryan A. Pangaluan, Mae Ann Briones, Mohammad Abdo Lucman, Deniza G. Cinto, Nelvin B. Tumaras, Genesis B. Naparan</i>	
	6		Design and Evaluation of a Large Language Model-Based Personalized Learning Assistant for Improving Students’ Writing Skills <i>Frenz Djaxxas Clorion, Herlo Merto, Juspher Handang, Kathleen Gregorio, Lyka Saldariega, Lewis Eldridge Lee, Edison Estigoy</i>	

13:00 – 14:30

🍽️ Lunch Break

14:30 – 16:00

Parallel Sessions 3A · 3B · 3C

Session 3	#	Session 3A <small>Virtual</small> Room 1 – Virtual Link	Session 3B <small>Virtual</small> Room 2 – Virtual Link	Session 3C <small>In-Person</small> Room 3 – In-Person & Virtual Link
Session 3	1	Artificial Intelligence for Hacking: From an Ethical Point of View <i>Rui Fernandes, Nuno Lopes, Joaquim Gonçalves, Irene Portela, John Cosgrove</i>	Explainable AI-Supported Microlearning Framework for Teacher Digital Competence Development <i>Bella Narcisa Troya Santillán, Augusto Paolo Bernal Parraga, Yury Douglas Barrios Palacios</i>	Reinforcement Learning based Solver for Realistic Dynamic Pickup and Delivery Problem: towards Explainable Artificial Intelligence <i>Bowei Han, Linda Elmhadhbi, Lilia Gzara</i>
	2	Cross-Dataset Evaluation of Traditional Machine Learning Models for Network Intrusion Detection Systems <i>Rui Fernandes, Raquel Martins, Nuno Lopes, Patrícia Leite</i>	Explainable Machine Learning for Early Identification of At-Risk Students in Ecuadorian Higher Education: A Learning Analytics Approach <i>Augusto Paolo Bernal Parraga, Alexandra Paola Álvarez Santos, Alonso Elías Pirela Añez</i>	AI-Enabled Master Data Management in Industry: A Use-Case Taxonomy and Integrated Governance Roadmap <i>Patrick Brandtner, Georg Mayr</i>
Session 3	3	Break-Glass Emergency Access Control for Blockchain-Based Self-Sovereign E-health Identity Systems <i>Sanae Seidi, Abderrahim Abdellaoui</i>	Human-AI Collaboration in Higher Education: Co-Regulated Cognition and Competence Development for Industry 4.0 and 5.0 <i>Marc Beutner, Jan-Phillip Lüttke</i>	From Fragmentation to Formalization: A UML-Based Model for Data Preparation and Management in LLMOps <i>Maria Chernigovskaya, Abdulrahman Nahhas, Klaus Turowski</i>
	4	Cybersecurity as Economic Value: An MSSP Investment Model for SMEs <i>Luís Ferreira, Michael Matias, Nuno Coelho</i>	Journeying Through Time: A Teacher-Centered ICT Integration Framework for Designing Context-Aware Digital Learning Systems in History Education <i>Juspher Handang, Arayana Kunting, Kathleen Gregorio, Nurfaiza Joe, Shermalyn Jacinto, Alvin Cabrera</i>	Towards a Digital Architecture to Manage Sustainability Data for Data-Driven Monitoring and Reporting <i>Asja Emer, Guido Sandforth, Matteo De Marchi, Erwin Rauch, Dominik Matt</i>
	5	Malware Recognition in Files Prone to Phishing Techniques <i>Luís Ferreira, Daniel Vilaça, António Sá, Nuno Coelho</i>	Knowledge Conversion and Learning by Making in University Innovation Space <i>Dmitry Shaytan, Georgy Laptev</i>	
	6	Power Attack on Hardware Implementation of Elliptic Curve Cryptography <i>Shraddha Hiremath, Shravani Pujari, Nalini C Iyer, Ujwala Patil, Bhagyashree Kinnal</i>	Personalization, Cognition and Gamification-based Programming Language Learning <i>Hamed Taherdoost, Hazra Imran</i>	
			Emerging Technologies for Effective Problem Solving in Educational Contexts <i>Hamed Taherdoost, Mitra Madanchian</i>	

16:00 – 16:30

☕ Coffee Break

16:30 – 18:00 Parallel Sessions 4A · 4B · 4C

Session 4	#	Session 4A <small>Virtual</small> Room 1 – Virtual Link	Session 4B <small>Virtual</small> Room 2 – Virtual Link	Session 4C <small>In-Person</small> Room 3 – In-Person & Virtual Link
Session 4	1	Explainable Rule-Based Computational Framework for Early Detection of Presuicidal Behavioral States <i>Augusto Paolo Bernal Parraga, Nelia González de Pirela, María Cristina Tapia Alvarado</i>	Predicting stock returns with machine learning models: an application of AI to Financial Analysis – The Case of Amazon <i>Marisol Costa, Jorge Duque, Natália Costa</i>	Extended Overall Equipment Effectiveness for human-centered production: A structural measurement framework <i>Johannes Hug, Jörg Wollert</i>
	2	Agentic Lakehouse Architecture for natural-language querying of heterogeneous sources via large language models <i>Sidbewende Omar Sawadogo, Yaya Traore, Julie Thiombiano</i>	SiSchool: A QR-Based Mobile Device Control System for Educational Environments <i>Nuno Pinto, Douglas Santos, Lucas Dourado, Válder Bodas, Firmino da Silva, José Monteiro</i>	Infotick: A citizen science mobile application for tick reporting and risk awareness <i>Emil Gatial, Zoltán Balogh, Sepideh Hassankhani Dolatabadi, Veronika Rusňáková Tarageľová, Markéta Derdáková, Alžbeta Šujanová, Diana Selyemová</i>
	3	Data Classification and Security Controls Framework for SMEs: A practical Approach for Portuguese Small and Medium Enterprises <i>Amaro Oliveira, Nuno Coelho</i>	Determinants of logistics service adoption in the digital economy <i>Mallika Subongkod, Apinya Ingard, Sarun Duangsuwan, Bcharis Hongsakul</i>	Tackling Japanese Traditional Floorplans: A Lightweight Segmentation Pipeline with 3D Reconstruction Capabilities <i>Selain K. Kasereka, Ibsen G. Bazie, Tasho Tashev, Milena Savova-Mratsenkova, Kyandoghene Kyamakya, Nathanaël M. Kasoro, Esteve Hassan</i>
	4	Fraud Detection in Credit Card Transactions: A Comparative Analysis of Machine Learning Models with Data Preprocessing and Sampling Techniques <i>Sana' Daouda, George Sammour</i>	A Sample Average Approximation Approach for a Vehicle Routing Problem with Flexible Deliveries and Stochastic Travel Times <i>Aksel Akmercan, Bülent Çatay, Duygu Taş</i>	From Interview to Compromise: A Case Study of a Targeted Web3 Supply-Chain Attack <i>Ramón García Seuma</i>
	5	Identifying Ambiguities in Arabic Software Requirements: A Comparative Study of Heuristic Rules and Machine Learning Models <i>Abdallah Qusef, Ebtehal H. Omoush, Ahmad Althunibat, Qasem Abu Al-Haija</i>	A new sustainability concept in the housing industry: Shifting from eco-friendly homes to homes for enjoying nature <i>Takumi Kato, Ami Hattori, Chisato Tamura, Fuyu Kajihara, Kumiko Takatsuka, Yuki Chiba</i>	
	6	Recognition Algorithms Based on the Construction of Threshold Rules using Representative Pseudo-Objects <i>Nomaz Mirzayev, Sobirjon Radjabov, Olimjon Mirzaev, Ilyos Rabbimov, Makhmadaziz Rasulmukhamedov, Tolaniddin Nurmuxamedov</i>	AI-Driven Predictive Model for Diabetes Risk Assessment: A Class-Balanced Machine Learning Approach with Web-Based Deployment <i>Amina Toumia, Firmino Oliveira da Silva, Jorge Duque</i>	

20:00

ISCSI 2026 Gala Dinner & Excellence Awards

Gala Dinner with Portuguese Fado Music Show · Excellence Award for Masters · Excellence Award for Doctoral

May 22, 2026 — Day 2

09:30 – 11:00

Parallel Sessions 5A · 5B · 5C


Session 5	#	Session 5A <small>Virtual</small> Room 1 – Virtual Link	Session 5B <small>Virtual</small> Room 2 – Virtual Link	Session 5C <small>In-Person</small> Room 3 – In-Person & Virtual Link
Session 5	1	AI Breakthroughs and Data Center Infrastructure Markets: Evidence from the DeepSeek-R1 Shock <i>Bruno Valente, João Carlos Souza</i>	Banks and Fintechs Are Not the Same: Asymmetric Determinants of Profitability in a Portuguese Panel <i>Joaquim Ferreira-Silva, José Neto, Jilen Hichri</i>	Harnessing Artificial Intelligence for Development in Africa: Opportunities and Challenges <i>Ramadile Moletsane</i>
	2	Beyond OCR Accuracy: The Importance of Named Entity Recognition in the Automatic Anonymization of Documents <i>Ebenezer Andrade da Silva, Andrei Lima Queiroz</i>	Rethinking Wage Determinants in Ecuador: Evidence from a Bibliometric Analysis <i>Juan Bernardo Chiriboga, María-Stefanie Vásquez-Peñañiel, Jesus Gerardo Cruz-Alvarez</i>	Digital-Enabled SMED for Setup Time Optimization <i>Tamer Abdulghani, Moritz Heyne, Herwig Winkler</i>
	3	Knowledge Repositories, AI, and Decision Support: A Critical Review <i>Teresa Guarda, Carlos Mendoza, Jairo R. Coronado-Hernández</i>	A Secure and Transparent Peer-to-Peer Energy Trading Platform Using Distributed File Systems <i>Shaik Rashmi, Vipina Valsan, Mukhesh Balaji M, Kanakasabapathy P, Ramaswamy Ramesh</i>	Towards Spectral Unmixing under Out-of-Dictionary Conditions for Textile Identification <i>Otoniel López Granado, Adrián Sarrías, Miguel Martínez Rach, Héctor Migallón</i>
	4	Towards AI-Supported Living Knowledge Repositories for Industrial and Research Contexts <i>Teresa Guarda, Jairo R. Coronado-Hernández, Carlos Mendoza</i>	Trust-Aware Algorithmic Matching in Childcare Platforms: A Design Science Research Approach <i>Carlos Tato, José Monteiro, José Moreira</i>	A Data-Driven Strategic Maintenance 4.0 Framework for the Hospitality Sector in Extreme Coastal Environments: A Case Study and Cost-Benefit Analysis <i>Rodrigo Morel-Manzo, Felipe Ramos-Rodríguez, Valentín Gálvez-Romero, Rodrigo Crisóstomo, Laura Rivera, Alvaro González-Holgado, Gustavo Gatica</i>
	5	Multi-Modal BEV-Based HD Map Generation using LiDAR and Camera Fusion for Autonomous Vehicles <i>Prabhavathi C Nissimagoudar, Jyoti Patil, Gireesha H M, Vinayswarup C Nissimagoudar, Juber M Mulla, Nalini C Iyer</i>	UX Party”: an educational mobile application for practicing concepts about Human-Computer Interaction <i>Daniela Quiñones, Benjamín Frenkel, Cecilia Pichicono, Pedro Galli, Luis Felipe Rojas</i>	Ontology-Based Environmental Assessment in ERP Systems: An OWL Implementation and Case Study in Precast Concrete Manufacturing <i>Angie Katherin Salamanca Cano, Marwa Ben Ali, Erwin Rauch, Dominik Matt</i>
	6		Towards a Checklist to Evaluate User Experience in Communication Platforms for Collaborative Virtual Workspaces <i>Luis Felipe Rojas, Daniela Quiñones, Felipe Barja, Carlos Alten</i>	Intelligent Truck Matching in Full Truckload Shipments using Ping2Hex approach <i>Srinivas Kumar Ramdas, Jose Mathew, Ankit Singh Chauhan</i>

11:00 – 11:30

☕ Coffee Break

11:30 – 13:00 Parallel Sessions 6A · 6B · 6C

Session 6	#	Session 6A <small>Virtual</small> Room 1 – Virtual Link	Session 6B <small>Virtual</small> Room 2 – Virtual Link	Session 6C <small>In-Person</small> Room 3 – In-Person & Virtual Link
Session 6	1	Robust Online Ensembling without Retraining: Leakage-Free Gating for Forecasting under Drift <i>Hussein Ahmad, Seyyed Kasra Mortazavi, Taha Benarbia, Fadi AL Machot, Kyandoghere Kyamakya</i>	Extended Reality in Museums: Research Trends Over the Past Fifteen Years <i>Carlos Rompante Cunha, André Moreira, Emanuel Peres, Aida Carvalho</i>	Use of Artificial Intelligence for Improving Data Quality in Product Return Management <i>Mubashir Hayat, Arlette Happi, Herwig Winkler</i>
	2	Safe AI for OCT Triage: A Confidence-Guided Ensemble Framework with Real-World Clinical Validation <i>Tiago Duarte, Ciro Martins, Mário Rodrigues</i>	Intelligent Inspection of Underwater Port Structures in islands: An operational workflow <i>Armando Mendes, Ana Hipólito, Maria Vitória Nunes, Alexandra Nunes, Ana Rita Gaspar, Marko Ruman, Maria João Barros</i>	Conceptual Design of a Campus-Scale V2X Living Lab for Cooperative Mobility Research <i>Arsénio Reis, Ricardo Cunha, Jorge Gouveia, João Barroso</i>
	3	Securing Digital Trust: A Comparative Review of Deepfake Detection Technologies and Emerging Threats <i>Anant Wairagade, Likhesh Brahmanwade</i>	Happiness and Well-Being in VET: A Bibliometric Mapping of Global Research Trends <i>Natália Costa, Carlos Miguel Oliveira, Marco Lamas</i>	Building an IT Strategic Plan, aligned with the Business needs, using the Balanced Scorecard <i>Tomas Orlandi, João Souza Neto</i>
	4	Similarity-Driven Meta-Learning for Automated Feature Selection in Binary Classification <i>Fátima Rodrigues, Teresa Almeida Campos</i>	BEV-Based Perception for Autonomous Driving using Camera--LiDAR Fusion Methods <i>Prabha C Nissimagoudar, Abhijeet Vinod Naik, Amirsohel S Nadaf, Vinayak Ganjihal, Shrinidhi Sunadholi, Nalini C Iyer, Ujwala patil</i>	From Hype to Weak Signals: Artificial Intelligence for Trend Identification in the Front End of Innovation <i>Patrick Brandtner, Thomas Lorenz</i>
	5	Utilising Deep Learning Methods for Trapa Natans Monitoring <i>Martin Krátký, Jakub Jech, Pavel Sedlák, Tomáš Brunclík, Michal Pešata, Oldřich Mašín</i>	Value-oriented or environment-oriented: Consumer attributes that increase the perceived value of craftsmanship in organic cotton <i>Takumi Kato, Fuyu Kajihara, Ami Hattori, Chisato Tamura, Kumiko Takatsuka, Yuki Chiba</i>	Responsible Bankroll Optimization with Harm-Aware Constraints and Governance in Sports Betting <i>René Manassé GALEKWA, Jean Marie Tshimula, Etienne Gael Tadajeu, Selain K. Kasereka, Kyandoghere Kyamakya</i>
	6	Zero-Shot Scene Affordance Detection Using Semantic Embeddings for Open-World Perception <i>Tushar S Pyati, Preeti Pillai, Nalini C. Iyer, Ujwala Patil</i>		AI integration in manufacturing execution systems <i>Krismar Epner, Karolin Kelpmann, Kristo Karjust, Jüri Majak</i>

13:00 – 14:30  Lunch Break

14:30 – 16:00

Parallel Sessions 7A ·

Session 7	#	Session 7A <small>Virtual</small> Room 1 – Virtual Link
Session 7	1	How does digital transformation influence smart organizational performance in Thai startups? <i>Mallika Subongkod, Bharis Hongsakul, Dusit Sirisombata, Attapol Moungsawad</i>
	2	A Structured Analysis To Mitigate Systemic Risk Of Digital Transformation In Public Sector <i>Diana Haimana, Mihai Pantazi, Irina Severin</i>
	3	AI Deployment Patterns and Digital Transformation Priorities in EU Public Administrations <i>Parisa Aasi, Abhishek Sharma, Gideon Mekonnen Jonathan, Iris Reyhav</i>
	4	Culture Before Technology: An Evidence-Based Roadmap for Operational Efficiency in Automotive SMEs within an Industrial Cluster <i>Juan Bernardo Chiriboga, Jesus Gerardo Cruz-Alvarez, María-Stefanie Vásquez-Peñafiel</i>
	5	Digital Transformation in Universities: From Technology Adoption to Institutional Change <i>Washington D. Torres-Guin, Teresa Guarda, Ana Dopico-Parada</i>
	6	Navigating the Tension: Capabilities, Constraints, and Public Value in Public Sector AI Adoption <i>Gideon Mekonnen Jonathan, Lucas Ödén, Tobias Boström, Erik Perjons</i>

16:30

ISCSI 2026 – Closing Notes & Farewell Cocktail*Closing Notes and Farewell Cocktail · Hotel Conference Bar*

22:00

ISCSI 2026 – Party with Drinks & Live Jazz Music*Last Day and time for relaxation at the nearby Jazz Club with Complementary Drinks and Live Music · Come Dance with Us! · Wine and Music Bar Lepicure Azores**Virtual room links are embedded in each session header**Room 3 is exclusively in-person, but you can see session also via link*