

WETICE 2026

31st IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises

DETAILED CONFERENCE PROGRAM • JULY 8–9, 2026

Wednesday, July 8, 2026

TIME	ACTIVITY
09:15 – 09:45	Registration & Welcome Coffee
09:45 – 10:00	Opening Ceremony <i>Welcome Address by the General Chairs and presentation of WETICE 2026</i>
10:00 – 10:50	Keynote 1: Guardrails Without Guards: The Era of Self-Regulating Just AI <i>Speaker: Dr. Y. V. Ramana Reddy Professor of Computer Science and Director of the AI Laboratory, West Virginia University, USA</i>
10:50 – 11:10	Coffee Break
11:10 – 12:00	Keynote 2: Building Trustworthy AI with State-of-the-Art Open Source Methodology <i>Speaker: Nicolas Rebieire President, European Trustworthy AI Association</i>
12:00 – 14:00	Lunch Break

Wednesday, July 8, 2026 • Parallel Technical Sessions

Room A – On-site Session 1

TIME	PRESENTATION
14:00 – 14:20	Scalable Runtime Verification for Microservice Systems: A Cloud-Native Framework for Digital Product Passports <i>Alessandro Verlanti, Giacomo Cabri, Massimo Garuti, Angelo Ferrando</i>
14:20 – 14:40	Seven Rules to Evaluate Whether You Live in a Local Transport Area <i>Erika Scaletta, Emiliano Tramontana, Gabriella Verga</i>
14:40 – 15:00	GRAIN: A Lightweight Generative AI Framework for Agricultural Decision Support <i>Majdi Hamdaoui, Maher Boughdiri, Aymen Yahyaoui, Takoua Abdellatif, Félix Cuadrado</i>
15:00 – 15:20	A Case Study of Process-Aware Conversational Agents for University Administrative Workflows <i>Gloria Tamboroni, Stefania Monica, Federico Bergenti</i>
15:20 – 15:40	Coffee Break
15:40 – 16:00	Data-Driven Monitoring for Scalable Distributed Modular Robots <i>Antonios Naguib, Eric Gavignet, Frédéric Gustin, Olga Kouchnarenko, Frédéric Lassabe</i>
16:00 – 16:20	EALA: Deep Reinforcement Learning-Based Energy-Aware and Low-Latency Scheduling for Serverless Computing in Heterogeneous Edge Environments <i>Mohamed Anisse Belhadj, Kods Trabelsi, Henri-Pierre Charles, Loïc Cudennec</i>

TIME	PRESENTATION
16:20 – 16:40	Stochastic Quantum Neural Networks for Collaborative Anomaly Detection in Distributed Enterprise Systems <i>Gautier-Edouard Filardo</i>
16:40 – 17:00	An Explainable AI-Driven Hybrid Deep Learning Framework for Depression Detection on X <i>Aya Hidri</i>

Room B – Online Session 1

TIME	PRESENTATION
14:00 – 14:20	HELIOS: PRF-Based Session-Bound Randomness for Deterministic Paillier Encryption in Authenticated IoT Systems <i>Sondes Baccouri, Takoua Abdellatif</i>
14:20 – 14:40	FORTRESS – Framework for Optimized Resilient and Trusted Research in E-healthcare with Secure Sharing <i>Marwa Chaieb, Souheib Yousfi</i>
14:40 – 15:00	Q-CANCER-6G: A Quantum Optimized 6G Resource Allocation Framework for Ultra-Fast and High-Precision Cancer Detection <i>Slimi Mahdia, Ibtissem Brahmi, Faouzi Zarai</i>
15:00 – 15:20	LLM SemanticShield: A Meaning-Preserving Semantic Governance Layer for Enterprises <i>Mahdi Khosravy</i>
15:20 – 15:40	Coffee Break
15:40 – 16:00	Collaborative Edge Load Balancing for IoV: LSTM-based Prediction and Priority-Aware Aggregation for V2X Safety Messages <i>Amal Hmaid, Marouane Hend, Hassene Mnif, Mohamed Mosbah</i>
16:00 – 16:20	Integrating Process Mining and Machine Learning for Learning Performance Analysis: A Moodle Case Study <i>Amel Sahli, Asma Mejri, Sonia Ayachi Ghannouchi</i>
16:20 – 16:40	BOA-DFL-6G V2X: Bayesian Optimization Adaptive and Deep Federated Learning for Energy Efficient Resource Allocation in 6G Vehicular Networks <i>Slimi Mahdia, Ibtissem Brahmi, Faouzi Zarai</i>
16:40 – 17:00	Explainable AI for Effective Malware Detection and Triage <i>Aleksandar Shurbevski</i>

Thursday, July 9, 2026

TIME	ACTIVITY
09:00 – 09:30	Welcome Coffee

Thursday, July 9, 2026 • Parallel Technical Sessions (Morning)

Room A – On-site Session 2

TIME	PRESENTATION
09:30 – 09:50	A Framework for Evaluating ROI of AI Projects <i>Guido Perboli, Marta Casassa, Sara Pavone, Nadia Simionato</i>
09:50 – 10:10	Cross-Domain Resource Control in SDN Cores with PPO-based Federated Learning <i>Rudricile Tomouo Djiogue, Lylia Alouache, Léo Mendiboure, Sara Berri</i>
10:10 – 10:30	Smart Management of Reservation-Based Parking Slots <i>Giacomo Cabri, Manuela Montangero, Filippo Muzzini, Roberto Wang</i>
10:30 – 10:50	Exploiting Blockchains to Enable Notarization in the Digital Product Passport <i>Fabio Zanichelli, Angelo Ferrando, Massimo Garuti, Giacomo Cabri</i>
10:50 – 11:10	Coffee Break
11:10 – 11:30	Performance Evaluation of Edge-Offloaded Augmented Reality Using Stochastic Petri Nets <i>Daliton da Silva, Dimas Nascimento, Luís Pereira, Paulo Maciel</i>
11:30 – 11:50	ZuriTwinBench: A Calibrated Open Digital Twin of a Fully-Actuated Urban Intersection as Enabling Infrastructure for Smart City Traffic Management Research <i>Hussaini Idris, Giacomo Cabri</i>
11:50 – 12:10	A Multi-Agent RAG-Based Conversational AI System for Personalized Alzheimer's Disease Care: Architecture, Implementation, and Performance Evaluation <i>Mohamed Riahi, Manel Madhioub, Fedi Fehmi</i>
12:10 – 12:30	ELENIDS: A Weighted Ensemble Intrusion Detection Framework Balancing Accuracy, Efficiency, and Explainability <i>Mariagrazia Fugini, Gaetano Alessi, Virgilio Cusano, Emilio Fattibene</i>

Room B – Online Session 2

TIME	PRESENTATION
09:30 – 09:50	Federated Variational Autoencoder-Based Ensemble Learning for Advanced Persistent Threat Detection <i>Manel Mahmoudi, Nadia Bali, Zied Jaoua, Imed Abbassi, Mohamed Graiet</i>
09:50 – 10:10	Toward an SLA-aware Ontology for Dynamic Service Placement in Fog-IoT Environments <i>Safa Aydi, Taher Labidi, Nadia Bouassida</i>
10:10 – 10:30	The Role of Blockchain and Artificial Intelligence in Natural Disaster Management <i>Afef Jmal</i>

TIME	PRESENTATION
10:30 – 10:50	Enhancing Vehicular Security through Neo4j Graph Modeling and Machine Learning <i>Raouf Jmal, Ikram Amous, Florence Sèdes</i>
10:50 – 11:10	Coffee Break
11:10 – 11:30	Comparative Study of LLM Adaptation Strategies for Pulmonology Diagnostics: Fine-Tuning vs. Retrieval-Augmented Generation (RAG) <i>Rima Jemni, Rahma Boujelbane, Lamia Belguith Hadrich</i>
11:30 – 11:50	Adaptive Multi-Objective Grey Wolf Optimizer II for Workflow Scheduling in Fog-Cloud Environments <i>Kaya Souaibou Hawaou, Sonia Yassa, Vivient Corneille Kamla, Laurent Bitjoka, Olivier Romain</i>
11:50 – 12:10	AI-Driven Intrusion Detection System Using Dark Web Threat Intelligence <i>Sarra Ain El Hayet El Annabi, Said Haddouk, Jihenne Bennaceur, Fatma Hachmi</i>
12:10 – 12:30	Adapting DarkBERT via Transfer Learning for Cyber Threat Classification on the Dark Web <i>Yasmine Daouas, Ayoub Malki, Jihenne Ben Naceur</i>

Thursday, July 9, 2026 • Lunch Break

12:30 – 14:00	Lunch Break
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Thursday, July 9, 2026 • Parallel Technical Sessions (Afternoon)

Room A – On-site Session 3

TIME	PRESENTATION
14:00 – 14:20	Green Shifting Techniques: A Data Model to Rule Them All <i>Nicolas Tirel, Sergio Ilarri, Philippe Roose, Adel Noureddine, Olivier Le Goaër</i>
14:20 – 14:40	FANET and Service Chaining in Kubernetes: The Operator Approach <i>Alessandro Di Stefano, Antonella Di Stefano, Alessandro Genovese, Massimo Gollo, Giovanni Morana</i>
14:40 – 15:00	ARISE: A Multi-Agent Architecture for Requirements Specification in Model-Based Systems Engineering Workflows <i>Arona Fall</i>
15:00 – 15:20	Beyond Classical Federated Learning: A Taxonomy-Driven Survey of Emerging FL Architectures <i>Meryem Ben Salem</i>
15:20 – 15:40	Coffee Break
15:40 – 16:00	Correctness-by-Construction for Multi-Layer IoT Architectures: An Event-B Approach <i>Malek Ltaief, Aida Lahouij, Lazhar Hamel, Mohamed Graiet</i>
16:00 – 16:20	A Formal Approach to Verifying Functional Scalability of IoT Systems using Event-B <i>Aida Lahouij, Khawla Boukchim, Ikbel Haouas, Lazhar Hamel, Mohamed Graiet</i>

TIME	PRESENTATION
16:20 – 16:40	A Modified Graph Autoencoder with an Inter-Feature Influence Matrix for Stealthy FDIA Detection in Smart Grids <i>Belkacem Kadri</i>
16:40 – 17:00	AI-Driven Threat Knowledge Platform Inspired by MITRE ATT&CK Using Dark Web Intelligence <i>Ahmed Guetat, Moatez Ben Slimen, Jihen Bennaceur</i>

Room B – Online Session 3

TIME	PRESENTATION
14:00 – 14:20	Engaging Farmers in Smart Irrigation: A Gamified AI and Blockchain-Based Edge–Fog–Cloud Approach <i>Yasmine Zorguati, Hajer Nabli, Raoudha Ben Djemaa, Layth Sliman</i>
14:20 – 14:40	TwinAI-Hydro: An Intelligent Anomaly Management System for Hydroponics Focused on Water Conservation <i>Essra Jegham, Hajer Nabli, Raoudha Ben Djemaa, Layth Sliman</i>
14:40 – 15:00	A Neuro-Sensory AIoT Framework for Early Spoilage Detection in Long-Term Agricultural Storage <i>Zaineb Attia, Hajer Nabli, Raoudha Ben Djemaa, Layth Sliman</i>
15:00 – 15:20	A Smart Contract Generator Based on the UDL-SC Description Model Extended with LDL <i>Wafa Souei, Chiraz El Hog, Layth Sliman, Raoudha Ben Djemaa</i>
15:20 – 15:40	Coffee Break
15:40 – 16:00	Predictive Artificial Intelligence Models for Glycemic Control in Diabetic Patients Observing Ramadan: A Review <i>Wala Souei, Eya Ghaddab, Layth Sliman, Raoudha Ben Djemaa</i>
16:00 – 17:00	General Discussion, Closing of the Online Session

Closing Ceremony: 17:00 – 17:20

WETICE 2026 — Infrastructure for Collaborative Enterprises