FTC 2026

15-16 October | Berlin, Germany

Agenda - Future Technologies Conference (FTC) 2026

15-16 October 2026 | Berlin, Germany

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TIME (Berlin) CEST/UTC+2	Thu Oct 15	Fri Oct 16
09:00 AM - 09:30 AM	Delegates Check-in / Login	Delegates Arrive / Login
09:30 AM - 11:00 AM	Opening + Keynote Talks • Daniel Cremers, Technical University of Munich • Sadaf R. Alam, University of Bristol	Keynote Talks • Jeanette Miriam Lorenz, Fraunhofer IKS • Valeria Bartsch, Fraunhofer CML
11:00 AM - 11:30 AM	Poster Presentations + Break	Networking Break
11:30 AM - 12:45 PM	Paper Presentations • Session 1: Computing • Session 2: Smart Healthcare	Paper Presentations • Session 7: Intelligent Agents & Agentic AI • Session 8: Cybersecurity
12:45 PM - 01:30 PM	Lunch Break	Lunch Break
01:30 PM - 03:30 PM	Paper Presentations • Session 3: Data Engineering & ML Systems • Session 4: Smart Infrastructure & Digital Twins	Paper Presentations • Session 9: Learning & Human-Centered AI • Session 10: Security and Privacy
03:30 PM - 03:45 PM	Break	Break
03:45 PM - 05:00 PM	Paper Presentations • Session 5: Computer Vision • Session 6: Robotics and Automation	Paper Presentations • Session 11: Applied AI • Session 12: AI Ethics & Society
05:00 PM Onwards	Scenic Cruise	Conference Closing (30 minutes)

Future Technologies Conference 2026
Day 1 - October 15, 2026

Session 1: Computing
October 15 | 11:30 AM - 12:45 PM | Room 2+3
Session Chair: Susanne Rosenthal

241 - Performance of Symmetric Multiprocessing in RTEMS-Based Flight Software Running on LEON4 (Pawel Buczek)

324 - Reproducible Builds for Quantum Computing (Iyan Mendez Veiga)

202 - Towards Trustworthy Exascale Computing: Deterministic Algorithms for Reproducible, GPU-Accelerated Digital Twins (Ayman Yousef)

201 - Temporal Optimization for Container Scheduling in Kubernetes (Camilla Martins)

108 - Quantum Computing in Artificial Intelligence (Zih-Yi Wang)

Session 2: Smart Healthcare
October 15 | 11:30 AM - 12:45 PM | Room 5
Session Chair: Rose Baker

288 - Comparing Model-Free and Model-Based Offline Reinforcement Learning for Personalized Fluorouracil Dose Adaptation (Jomana Reusch)

329 - Sensor Fusion for Contactless Monitoring of Passengers' Vital Signs in a Shuttle-Emulator (Sven Gravemeier)

83 - Beyond End-to-End CNNs: A Systematic Comparison of Deep Feature–Based SVM and VGG16 for Brain Tumor Classification (Mahnoor Jamil)

256 - Hyperparameter-Optimized Benchmarking of Deep Learning Models for Diabetic Foot Ulcer Tissue Segmentation (Jose Eduardo Chairez Veloz)

338 - A Physics-Informed Machine Learning Framework for Predicting Extrusion Printability of Alginate–Methylcellulose Bioinks (Khulood Abu Maria)

Session 3: Data Engineering & ML Systems
October 15 | 01:30 PM - 03:30 PM | Room 2+3
Session Chair: Domenico Sacca

39 - DUST: A Modular, Plugin-Driven Pipeline for Scalable Feature Engineering from Heterogeneous Time Series (Alexander Patola, Lars Gordon, Joel Wolber, Susanne Rosenthal)

287 - Learning-to-Rank Models for Predicting Horse Race Outcomes from Tabular Racing Features (Kenneth Nguyen)

203 - Unlocking UML Class Diagram Understanding in Vision Language Models (Artem Naboichenko)

88 - The Non-Backtracking Transition Probability Matrix and its Usage for Vertex Clustering (Hannu Reittu, Marianna Bolla)

144 - Computational Infrastructure Based on MongoDB and Machine Learning for Built-Up Surface Monitoring (Marco Antonio López Vega)

184 - Towards Trustworthy AI-Enhanced Migration of Quantity Surveying Cost Data: A Comparative ETL Benchmark (Mohd Nasir Saari)

190 - Validating Digital Financial Inclusion in OIC Countries: A Hybrid PCA–ML and Explainable AI Framework (Nassar Bashar Hussein Al Hafidh)

189 - Who Succeeds and Why? A Leakage-Aware and Fairness-Aware Evaluation of Machine Learning for Student Performance Prediction (Mohamed Mustafa Mohamed Abofanas)

Session 4: Smart Infrastructure & Digital Twins
October 15 | 01:30 PM - 03:30 PM | Room 5
Session Chair: Rose Baker

176 - Artificial Intelligence, Urban Digital Twins, Law Compliance and Anonymity in Smart Cities (Julius Schöning)

158 - Development and Definition of Key Parameters for Police Analysis Using Digital Forensic Data in a Forensic Digital Investigation Twin (Dirk Volkmann)

84 - From Hidden Risks to Predictive Insights: How Artificial Intelligence is Transforming Mega-Infrastructure Project Management (Minnu Helen Joseph)

47 - Integrating AI-Driven Environmental Management and Financial Performance in Oil and Gas for Sustainable Operations and Green Energy Transition (Eldar Mardanov)

289 - Federated Learning with Uncertainty for Urban Water Dynamics (Golnoosh Abdollahinejad)

238 - Digital Twin Frameworks for Manufacturing Optimization in the Future Automotive Smart Factories (Shaaban Ali)

188 - Predictive Lyapunov Drift-Plus-Penalty Control for Multi-Access Traffic Steering in 5G Heterogeneous Networks (Ahmed Lateef Salih Al-Karawi)

6 - An Energy Harvesting (EH) Proposal Based on Radio Frequency (RF) as Node Power Supply Applications in Smart Wireless Sensor Networks (WSNs) (Diogo Ferreira Lima Filho)

110 - OntoSDSAM: An Ontology for Service Delivery in South African Municipalities (Jean Vincent Fonou Dombeu)

Session 5: Computer Vision October 15 | 03:45 PM - 05:00 PM | Room 2+3 Session Chair: Susanne Rosenthal	Session 6: Robotics and Automation October 15 | 03:45 PM - 05:00 PM | Room 5 Session Chair: Ahmed Elkaseer
278 - AI-Enhanced Template Matching for Symbol Detection in Technical Drawings (Borys Lomazov) 197 - Real-Time Elemental Mapping of X-ray Fluorescence Spectra Using Convolutional Neural Networks (Marcel Voelschow) 232 - Accelerating New Product Introduction for Visual Quality Inspection via Few-Shot Diffusion-Based Defect Synthesis (Serkan Hamdi Gügül) 321 - Autonomous Robotic 3D Inspection Versus Expert Manual 3D Scanning for Quality Control in Small-Batch Manufacturing: Case Study (Jakob Fabjan)	119 - Open-Source Language Models for Industrial Decision Support: A Semi-Automated Scoping Review Towards Industry 5.0 (Toni Tani) 100 - Pilot Study: Trust, Privacy Concern, and Perceived Safety Before and After Physical Interaction with a Mobile Manipulator Robot (Joosep Parts) 328 - RoboCodeGen: Generating and Simulating Robot Control Policies from Natural Language (Guntis V. Strazds) 330 - An Intelligent Route Planning and Charging Management System for Electric Vehicle (Lekshmi R. R.) 199 - The Slow Food of Labour: A Task-Structural Analysis of Human-Centred Resilience in AI-Driven Labour Markets (Ilona Erika Negro)

05:00 PM onwards - Free Köpenick Old Town & Müggelsee - 2 Hour Scenic Cruise

Join us for a relaxing scenic cruise through one of Berlin's most charming and picturesque areas

5:00 pm: Walk to the boat pier (15 min) and board
5:30 pm - 7:30 pm: Explore three distinct landscapes, from historic Berlin's Luisenhain, Köpenick Old Town, Castle Island, and Köpenick Palace to the scenic Müggelspree, with its marinas, waterfront homes, and wooded riverbanks. Enjoy panoramic views of Großer Müggelsee and the Müggelberge and Müggelturm area before returning to Köpenick.
7:30 pm: Disembark and back to the conference venue.

Future Technologies Conference 2026
Day 2 - October 16, 2026

Session 7: Intelligent Agents & Agentic AI October 16 | 11:30 AM - 12:45 PM | Room 2+3 Session Chair: Domenico Sacca	Session 8: Cybersecurity October 16 | 11:30 AM - 12:45 PM | Room 5 Session Chair: Pascal Lorenz
174 - A Multi-Level Governance Architecture for Agentic AI Risk Mitigation (Neil H. Wasserman) 153 - A Potentialization Algorithm for Games with Applications to Multi-Agent Learning in Repeated Games (Sharwin Rezagholi) 211 - Agent-Driven Evaluation of Generative AI Agents (Daiga Deksne) 61 - Agentic RAG: Building an Accurate, Trustworthy AI Agent for Technical Support in Industrial Computing and Automation (Ilham Supriyanto) 316 - Vibe No-Coding Framework: From Business Requirements Dialogue to Executable and Evolving Business Applications Through Knowledge Representation, Agentic AI, and a No-Code Platform (Abdelhadi Rouam)	17 - TRACE4EU: Enhancing Use Case Onboarding Process and Cybersecurity for EBSI Integration (Kai Hendrik Wöhnert) 163 - An AI-Assisted Framework for Automated Malware Reverse Engineering and Analysis (Alexander Schoolcraft, Bryson Payne) 205 - The Importance of Critical Technologies for the CSDP and Countering Disinformation Phenomena (Andrea Ruffo) 10 - Bracing for the Invisible Battlefield: Assessing Cyberwarfare Readiness in Developing Nations (Khutso Lebea)

Session 9: Learning & Human-Centered AI October 16 | 01:30 PM - 03:30 PM | Room 2+3 Session Chair: Ilham Supriyanto	Session 10: Security and Privacy October 16 | 01:30 PM - 03:30 PM | Room 5 Session Chair: Marianna Bolla
187 - OME6-AI: A Design-Based Framework for Contextualized Artificial Intelligence in STEM Education Through Game-Based Learning and Edge AI Systems (Ignace Kasiama Mupalanga) 248 - Pedagogical Reflections on Innovations and Concerns of Slovak Teachers Regarding the Use of Artificial Intelligence in Education (Veronika Valkóová) 103 - Exploring the Impact of Immersive Technologies in Teacher Education (Karan Singh Chaudhary) 124 - From Code Generation to Demonstrable Understanding (Andres Käver) 115 - Analyzing System Requirements with ChatGPT (Leena Hellman) 65 - Enhancing LLM-Based Search with a Semantic Concept Graph: A Large-Scale Evaluation (Hermann Bense) 284 - The Digital Handwriting Scorer: A Kinematic Intelligent Tutoring System for Early Childhood Literacy (Mostafa Rabeea Marzouk)	95 - A Multi-Layer Framework for Anti-Counterfeiting (Domenico Sacca) 285 - Layered Security Testing for Small Development Teams Using DAST, SAST, SCA, and AI-Assisted Code Review (Kaisa Liiv) 228 - Model-Informed Protection of Mixed Reality Headset Users from Adversarial Physiology Attacks (Nikolai Petsev) 311 - Replay-Based Pilot Adaptation for OCPP Intrusion Detection under Domain Shift in EV Charging Infrastructure (Maria Makrynioti) 333 - Assessment of Transformer-Based Architectures for Intrusion Detection in Automotive CAN Network (Ahmed Elkaseer) 105 - From Jailbreaks to Agentic Attacks: A Survey of Security Threats and Defenses in Large Language Models (Omar Mansour) 40 - AI-Driven Security in DTN-Based eLearning Networks in Critical Scenarios (Justino Lourenço)

Session 11: Applied AI October 16 | 03:45 PM - 05:00 PM | Room 2+3 Session Chair: Ahmed Elkaseer	Session 12: AI Ethics & Society October 16 | 03:45 PM - 05:00 PM | Room 5 Session Chair: Ilham Supriyanto
307 - AI-Based Facial Expression Analysis of Federal Reserve Press Conferences and Intraday Market Reactions (Jiachuan Wang) 14 - An Initial Study of an Obsolescence-Resilient Computer System Architecture Based on the Bare Machine Computing Paradigm (Ramesh Karne) 275 - IoTGuardFSM: A Lightweight Behavioral Finite State Machine for Runtime Security Enforcement in IoT Devices (Mojtaba Akbari) 38 - SYNAPSE: Greenwashing Detection in Corporate ESG Reports Through NeuroSymbolic AI and Counterfactual Reasoning (Kaveesha Fernando)	290 - NUDGED: A Preliminary UX and Prototype Study for Workplace Mental Fatigue Support (Tamika Arnold) 106 - Ethical Governance of Generative AI in Higher Education (Rose Baker) 254 - Towards a Lifecycle Framework for Assumption-Aware Robustness Assurance of Human-Interacting Safety-Critical Systems (Astrid Rakow) 91 - AI-Driven Workforce Transformation (Sandra Starke)