FTC 2026
15-16 October | Berlin, Germany

Agenda - Future Technologies Conference (FTC) 2026

15-16 October 2026 | Berlin, Germany

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SAI Conferences

TIME (Berlin) CEST/UTC+2	Thu Oct 15	Fri Oct 16
09:00 AM - 09:30 AM	Delegates Login	Delegates 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	Break	Break
11:30 AM - 12:45 PM	Paper Presentations • Session 1: Cybersecurity • Session 2: Agents & Multi-Agent Systems • Session 3: Smart Healthcare	Paper Presentations • Session 10: Cybersecurity • Session 11: Ambient Intelligence • Session 12: Learning Technologies
12:45 PM - 01:30 PM	Lunch Break	Lunch Break
01:30 PM - 03:30 PM	Paper Presentations • Session 4: Human Computer Interaction • Session 5: Computing • Session 6: Data Science	Paper Presentations • Session 13: AI Ethics & Society • Session 14: Intelligent Systems • Session 15: Industrial AI
03:30 PM - 03:45 PM	Break	Break
03:45 PM - 05:00 PM	Paper Presentations • Session 7: Computer Vision • Session 8: Robotics • Session 9: Ambient Intelligence	Paper Presentations • Session 16: Intelligent Transportation • Session 17: Computing • Session 18: Applied AI
05:00 PM Onwards		Conference Closing

Future Technologies Conference 2026
Day 1 - October 15, 2026

Session 1: Cybersecurity
October 15 | 11:30 AM - 12:45 PM

229 - Self-Organizing Map-Guided DQN for Sequential Browser-in-the-Browser Attack Detection (BitB) (Steve Bevon)

26 - Design of Fully On-Device Memory-Based Anomaly Detection on Mobile Platforms (Yoshiyuki Kido)

37 - Protecting the Intellectual Property of Deep Neural Networks Through Distributed DCT Watermarking and Segment Homogeneity (Ibrahim Kamel)

28 - A Strategic Roadmap for Assessing and Educating on Personal Cybersecurity Practices in Universities (Ryan Lopez)

200 - Multiple Input Based Anomaly Detection for 5G Networks (Ayaz Hussain)

Session 2: Agents & Multi-Agent Systems
October 15 | 11:30 AM - 12:45 PM

99 - From Features to Actions: Explainability in Traditional and Agentic AI Systems (Aravind Narayanan)

98 - Reliable LLM-Based Natural Language Orchestration for 5G Network Slicing Using a Hybrid MCP-Agent (Ebnel Hadj Youssef Moetaz)

143 - Synchronous and Asynchronous Coordination of AI Agents: From Mathematical Iterative Methods to Modern Agent Frameworks (Jürgen Geiser)

164 - Transparency for Agentic AI: A Study of Benchmarks, Metrics, and Oversight (Christos Emmanouilidis)

154 - Quantum Agentic AI with Distributed Tensor Memory for Wearable Devices (Mahdi Eslamimehr)

Session 3: Smart Healthcare
October 15 | 11:30 AM - 12:45 PM

194 - Edge Deployment for Privacy-Preserving Telerehabilitation (Tharika Chalani Weerakoon)

85 - Role of Generative AI in Healthcare Decision Support (Ayesha Ubaid)

148 - Beyond Accuracy: Evaluating Machine Learning Models for Diabetes Prediction on Imbalanced Data (Sana Alyaseri)

152 - To What Extent Can Convolutional Neural Networks (CNNs) Improve the Diagnostic Accuracy of Early Detection of Lung Cancer? (Arif Mehnaz)

206 - Deriving Technological Requirements for Patient-Centered AI-Enabled Digital Health Systems in Rural Contexts (Agostinho Da Silva)

257 - Use of Artificial Intelligence (AI) and Machine Learning (ML) in the Transport of Human Organs and Corpses (Malgorzata Rzeszutko-Piotrowska)

Session 4: Human Computer Interaction
October 15 | 01:30 PM - 03:30 PM

195 - Framework for Evaluation Metrics of Virtual Meetings at the Example of Remote Scrum Events (Bärbel Bissinger)

193 - Self-Learning Monitoring Agents for Evolution-Aware Control of LLM-Mediated Software Systems (Vasyl Lyashkevych)

86 - An Investigation into the Usability of Website Cookie Banner Design (Pietro Murano)

13 - Need for Physical Environment Variable in Evaluating Human Digital Interaction (Diane Guevara)

30 - A Mobile Application for the Mapping and Evaluation of Hearing After Cochlear Implantation Surgery (Tarini Chaitanya Kartheek)

313 - DMF: A Deterministic Memory Framework for Conversational AI Agents (Enrico Zimuel, Matteo Stabile)

327 - CNN-Based Fuzzy State Machine for Transition Dynamics of Emotional States in Affective Agents (Ahmad Soleimani)

64 - Ethics of Explainable AI: Technical Foundations and Societal Challenges (Elena Pesotskaya, Sergey Avdoshin)

Session 5: Computing
October 15 | 01:30 PM - 03:30 PM

55 - CrossGL: A Hub-and-Spoke Compiler Infrastructure for Universal Shader Translation Across Heterogeneous GPU Architectures (Nripesh Niketan Bharathi)

57 - Robust Infrastructure for Large-Scale AI Workloads: A Survey of Deployment Architectures and System Reliability (Aishi Huang)

182 - ATLAS: Automated Translation and Linking Analysis System for Legacy Fortran Modernization (Abhiram Donepudi)

132 - Federated Deployment and Empirical Evaluation of the Centrality-Entropy Index Framework for Enterprise Cloud Governance in Multi-Tier Distributed Environments (Prawal Pokharel)

139 - Governance-Aware Resource Allocation for Defense Infrastructure Using the Centrality-Entropy Index (Prawal Pokharel)

140 - Governance-Aware Resource Allocation for GPS-Denied Sensor Networks Using the Centrality-Entropy Index (Prawal Pokharel)

191 - Inference Energy Tracks Latency Rather Than FLOPs on Apple Silicon (Romir Kadiam)

215 - Hybrid Quantum–Classical Architectures Based on Encoded Qubit Mapping and Quantum Logic Operations (Nagi Mekhiel)

Session 6: Data Science
October 15 | 01:30 PM - 03:30 PM

102 - DIVE: A Multiview Swimming Dataset and Interpretable AI Framework for Poolside Performance Analysis (Vanessa Camilleri)

259 - Proactive Multi-Modal Bird Deterrence in Aquaculture: A Predictive Framework Using Modified Principal Component Analysis and Gradient Boosting (Sara Alruzaiqi)

111 - Enhancing Sarcasm Detection: The Impact of Feature Engineering and Dataset Scaling on Model Performance (Farhad Nadi)

130 - From Accuracy to Transparency: Explainable Artificial Intelligence as a Trust Lever in Recommender Systems (Comlan Maurice)

179 - Insights from Developing Digital Platforms to Maximise the Sustainable Use of Scientific Research Equipment (Christopher Wilkinson)

42 - Understand Customers' Perception Towards the Sustainability of Food Industry Supply Chain Using Causal Social Media Analytics (Omid Fatahi Valilai)

312 - Automated Black-Box Hunting of Web Cryptographic Vulnerabilities Via Large Language Models (Quoc Anh Nguyen)

Session 7: Computer Vision October 15 | 03:45 PM - 05:00 PM	Session 8: Robotics October 15 | 03:45 PM - 05:00 PM	Session 9: Ambient Intelligence October 15 | 03:45 PM - 05:00 PM
34 - Long-Form Text-to-3D Generation via SVO-Based Semantic Filtering (Yoshiyuki Kido) 32 - Comparative Evaluation of Smartphone LiDAR and Photogrammetry for Indoor 3D Reconstruction in AR/VR and Edge-Enabled XR Systems (Lidija Tepes Golubic) 150 - Virtual Reality for Aviation Training: Spatial Presence Compared (Jason Vosburgh) 260 - SceneSpace Emotion: Interpretable Analysis of Cinematic Spatial Composition for Emotional Delivery (Alex Lee, Isabelle Lee,) 31 - A Cue-Based Framework for Evaluating Perceived Photorealism in Architectural Rendering (Matija Grasic)	97 - Depth of Discharge and EV Charging Search in Urban Centers: An Agent-Based Study (Jean-David Collard) 18 - MSTRAE: Multi-Scale Temporal Recurrent Autoencoder for Flight Manoeuvre Recognition (Aditya Girish) 117 - Multimodal CNN–BiLSTM for Cross-Subject Upper-Limb Motion Classification: Quantifying Generalization on Ninapro Db5 (Maxwell Omwenga) 246 - An Intent-Guided Multimodal Assistive Framework for Context-Aware Indoor Navigation and Safety Guidance (Zina Abohaia) 332 - A Social Robot-Assisted Ambient Assisted Living System for Reducing the Risk of Dehydration and Hypothermia in Older People (Hani Sindi)	114 - Closing the Verification Gap: Non-Intrusive Auditing of Lighting Efficiency in Commercial Buildings (Moses Boudourides) 93 - Enhancing the Adoption of Green Roof Systems Through E-Learning in the Built Environment (Osamudiamen Otasowie) 113 - Quality Control Mechanisms in Modular Construction (Peter Adekunle) 123 - Determinants of Learning-Enabled Quality Control Adoption in Modular Construction for Enhanced Delivery Performance (Peter Adekunle) 24 - Technological Challenges of Smart Contract Adoption in Project Procurement in the South African Construction Industry (Love Opeyemi David) 48 - Smart Sensor Adoption Readiness in Developing Nations: Towards Structural Health Monitoring of Public Infrastructure Projects (Osamudiamen Otasowie)

Future Technologies Conference 2026
Day 2 - October 16, 2026

Session 10: Cybersecurity October 16 | 11:30 AM - 12:45 PM	Session 11: Ambient Intelligence October 16 | 11:30 AM - 12:45 PM	Session 12: Learning Technologies October 16 | 11:30 AM - 12:45 PM
247 - The VERTEX Framework: An Integrated Cybersecurity Strategy Model for the AI Accelerated Enterprise (Mahesh Puthenpurackal Gopalakrishnan) 265 - An Evidence-Based Documentary Baseline of National Cybersecurity Capabilities in Ecuador (2020–2025) (Luis Javier Serpa Andrade) 159 - Graph-Based Threat Detection Framework for Multiagent Systems (Xiao Lin) 231 - Cross-Run Evaluation of EEG-Based Authentication Using Classical Machine Learning Models (Aleena Elsa George) 22 - Distributed Backdoor Attack Detection Methods in Multi-Agent Systems (Kohei Arai) 35 - Secure Your Cloud Journey, One Zero-Trust Step at a Time (Edward Yakabovicz)	196 - LegalGuardian: A Privacy-Preserving Framework for Secure Integration of Large Language Models in Legal Practice (M. Mikail Demir) 317 - Empirical Evaluation of the Reticulum Network Stack Across Heterogeneous Wireless and Wired Media (Ahmad Soleimani) 272 - AI-Powered Obstacle Detection and Navigation Application for the Visually Impaired (Michael Goh) 294 - Low-Cost Image Recognition Approach for Effective Vehicle Management (Daniel Mori Yzaguirre) 304 - SAKT-Based Recommendation System for Autonomous Learning in Students from Metropolitan Lima (Daniel Mori Yzaguirre)	19 - Neural Network-Based Assessment Tools for Evaluating Students' Performance in Humanities (Svetlana Karkina) 89 - An Adaptive State Educational Model for Mathematics: The Ardist Framework (Silvia Gaftandzhieva) 101 - Exploring Neurodivergent Children's Speech Synthesis Using TTS and LLMs (Reno Yuri Camilleri) 267 - People Skills and Online Learning: Developing Effective Leaders (C. Todd Williams) 274 - Arabic-WhisperFT: Domain-Adaptive Fine-Tuning of Foundation Speech Models for Arabic Speech Recognition (Sawsan Malaka)

Session 13: AI Ethics & Society
October 16 | 01:30 PM - 03:30 PM

90 - Integrity in Science: How Scientists Interpret Ethics and Responsibility Across AI-Enabled Research Tasks (Janika Leoste)

21 - The Caesura as System Boundary: Towards Interruptive Architectures for Ethical AI (Peggy Bloomer)

250 - Companion AI and Ethical Design: Learning From System Failures and User Desires (Alicia Vidler)

230 - Generative AI and Emotional Regulation in the Built Environment: Implications for Construction Workers (Ornella Tambwe)

161 - Co-Creating Urban Order: Exploring the Potential of Human-AI Collaboration in Addressing Informal Settlement Planning in the Global South (Nana Akua Asabea Gyadu-Asiedu)

281 - Explainable AI for Cybersecurity: A Constraint-Based Survey (Lan Zhang)

331 - Towards a Non-Local Brain-Computer Interface Based on QED Coherent States of Condensed Matter and its Prospects for Artificial General Intelligence (Luigi Maxmilian Caligiuri)

Session 14: Intelligent Systems
October 16 | 01:30 PM - 03:30 PM

180 - Eco-Gated Multi-Task Neural Network for Forest Growth Modeling Using Ecological Feature Structuring (Wardah Ibrar)

244 - Nonlinear Climate–Migration Dynamics Revealed by Interpretable Machine Learning (Boyoon Choi)

155 - Physics-Conditioned Diffusion Model for Generating Synthetic Extreme Rare Weather Events Data (Marawan Yakout)

29 - Artificial Intelligence-Powered Technologies in the Construction Phase: A Bibliometric Analysis for Identification and Classification (Rexford Henaku Aboagye)

118 - The Role of Generative AI and Large Language Models in Sustainable and Resilient Infrastructure Design: A Bibliometric Review (Gloria Awnyetemy Akanyawie)

157 - Enhancing Construction Supply Chain Security with Blockchain: A Bibliometric Review (Ornella Tambwe)

310 - Privacy-Preserving Data Aggregation for High-Frequency Electricity Markets Using Paillier Encryption on Smart Meters (Selcuk Baktir)

208 - Machine Learning-Driven Predictive Modelling and Optimization of Construction Build Up Rates (Nor Arzalifah Abd Razak)

Session 15: Industrial AI
October 16 | 01:30 PM - 03:30 PM

51 - Elliptic-Temporal Intuitionistic Fuzzy Quads for Interpretable Industrial AI Strategy Evaluation (Velichka Traneva)

50 - An Intuitionistic Fuzzy Monte Carlo Approach to Sensitivity Assessment (Stoyan Tranev)

218 - Risk Management and Operational Effectiveness in AML/CFT Systems (Diana-Monica Haimana)

125 - Problem Solving with a Panel of 100 Artificial Business Experts: Empirical Comparison to Human Professionals (Tarmo Koppel)

136 - An AI- and DPP-Enabled Adaptive Production Planning Framework for Bullwhip Effect Mitigation in Automotive Supply Chains (Omid Fatahi Valilai)

137 - Using Large Language Model Enabled Solution to Identify Financial Risks in Supplier Contracts (Omid Fatahi Valilai)

277 - Causality Structure Symmetries for Agentic AI: Foundation in a Multicopy Complex Number Field and Symmetry Reification in an Extension Number Field (Jan Treur)

Session 16: Intelligent Transportation
October 16 | 03:45 PM - 05:00 PM

314 - Asleep at the Wheel: JEPA's Limitations in Evaluating Novel Driving Data (Advait Pavuluri)

252 - Agentic Architectures for Intelligent Transportation Systems (Mahra Alali)

318 - Optimal Path Planning for UAVs in Digital Twin Edge Networks (Alif Ruslan)

308 - Input Data Bit Encoding and Hybrid Activation Function for Neural Network Model (Fakhrul Hazman Yusoff)

322 - Phishing Email Detection Using a Dual Word—Character Embedding Convolutional Neural Network (Noor Azma Ismail)

Session 17: Computing
October 16 | 03:45 PM - 05:00 PM

109 - Demystifying AI Communication: Classification by Functionality (Ivanka Valova)

75 - A Treatise on Information Criteria: Contributing to the Search for Life in the Universe (Petr Klán)

72 - Algebraic-Geometric Approaches to NP Problems and AI (Fred Roush)

76 - Multifidelity Triadic/Pentadic Computing and Consciousness (Michael Sobolewski)

107 - Physical Computing by Means of Colloidal Crystallites in Aqueous Solutions (Luigi Maxmilian Caligiuri)

222 - De-rotting Gen Z's Content Feeds (Richa Thakur, Astha)

165 - Standard Takers or Standard Makers? The EU AI Act, African AI Developers, and the Politics of Regulatory Transplantation (Betty Blankson)

Session 18: Applied AI
October 16 | 03:45 PM - 05:00 PM

279 - Reflex and Behavioral Metrics of Fatigue for Improving Educational Outcomes (Igor Val Danilov)

283 - The Curriculum Architect: A Hybrid Framework for Automated Prerequisite Graph Extraction from Educational Curricula (Ali Hesham Abdelrazek)

325 - A Lightweight CNN Steganalyser for Pixel Value Differencing Using High-Pass Filtering and Staged Fine-Tuning (Tahir Mehmood)

326 - Modeling Sentiment in Code-Mixed Social Media Using Machine Learning and Deep Learning Techniques (Tahir Mehmood)

286 - Explainable Recovery Intelligence: A Random Forest and SHAP Framework for Recommendation-Led Addiction Recovery Support (Nitish Chooramun, Maged Abdelmonem)