

Agenda - Future of Information and Communication Conference 2025

28-29 April 2025 | Berlin, Germany

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SAI Conferences



TIME (Germany) CEST/ UTC +2	Mon April 28	Tue April 29
09:00 AM	Delegates Check-in	Delegates Arrive
09:30 AM - 11:00 AM	Opening + Keynote Talks <ul style="list-style-type: none">Stefan Schmid, TU BerlinBjörn Schuller, Technical University of Munich	Keynote Talks <ul style="list-style-type: none">Johannes Nagele, Alexander Thamm GmbHAljoscha Burchardt, DFKI
11:00 AM - 11:30 AM	Poster Presentations Networking Break	Networking Break
11:30 AM - 12:45 PM	Paper Presentations <ul style="list-style-type: none">Session 1: SecuritySession 2: Data Science	Paper Presentations <ul style="list-style-type: none">Session 7: SecuritySession 8: Artificial Intelligence
12:45 PM - 01:30 PM	Lunch	Lunch
01:30 PM - 03:30 PM	Paper Presentations <ul style="list-style-type: none">Session 3: CommunicationSession 4: Data Science	Paper Presentations <ul style="list-style-type: none">Session 9: Ambient IntelligenceSession 10: Artificial Intelligence
03:30 PM - 03:45 PM	Networking Break	Networking Break
03:45 PM - 04:45 PM	Paper Presentations <ul style="list-style-type: none">Session 5: Machine LearningSession 6: Technology Trends	Paper Presentations <ul style="list-style-type: none">Session 11: SecuritySession 12: Computing
05:00 PM onwards	Berlin Spree River Cruise	Conference Closing

Future of Information and Communication Conference 2025

Day 1 - April 28, 2025

Session 1: Security

April 28 | 11:30 AM - 12:45 PM | Lisboa 1&2

Session Chair: David Brosset

- 290 - IoT Device Security Using PUF-Based Tags: A Lightweight Protocol for Preventing Hardware Substitution (**Domenico Sacca**)
- 270 - Security and Privacy in Ambient Intelligence, the Internet of Things and Pervasive Systems: Interrelationships for Systems of Public Safety (**Michael Losavio**)
- 178 - Area Optimized Architectures for Galois Counter Mode (**Jithra Adikari**)
- 221 - Revisiting a Probabilistic Moving Target Defense Strategy to Handle Attacks Against Network Nodes with Multiple Resources (**Jamil Ahmadkassem**)
- 268 - Increasing Interference Detection in Quantum Cryptography Using the Quantum Fourier Transform (**Nicholas Papadopoulos**)

Session 2: Data Science

April 28 | 11:30 AM - 12:45 PM | Lisboa 3

Session Chair: Kohei Arai

- 237 - Exploring Foundation Model Fusion Effectiveness and Explainability for Stylistic Analysis of Emotional Podcast Data (**Arnab Das**)
- 62 - Aligning the FEDeRATED Upper Ontology with Battery and Electronics Ontologies to Aid Circular Economy Monitoring in Practice (**Theodor-Christian Chirvasuta**)
- 308 - Scalability and Performance in Duplicate Detection: Relational Versus Graph Database (**Noryanti Muhammad**)
- 48 - Product Search Prompts: Generator-Discriminator Approach (**Fedor Kurushin**)

Session 3: Communication

April 28 | 01:30 PM - 03:30 PM | Lisboa 1&2

Session Chair: Pascal Lorenz

- 95 - Design and Evaluation of a Service-Based Interface for the Control of 5G User Plane Functions (**Hauke Buhr**)
- 113 - Multiple Input Multiple Output Radar: Study and Evaluation of Signal to Noise Ratio (**Andrea Cioncolini**)
- 216 - Omega: The Power of Visual Simplicity (**Dominique Colnet**)
- 273 - Context Awareness and Reflexes in Wireless Networks to Increase Robustness and Coexistence (**Swen Leugner**)
- 307 - Optimizing IoT Data Streams with Tumbling Window Techniques (**Vincenza Carchiolo**)
- 261 - Comparison Performance of Spectrogram and Scalogram as Input of Acoustic Recognition Task (**Dang Thoai Phan**)
- 244 - Territorial Distribution of Funding According to Strategic Variables Using Geoinformation (**Mariella Gutiérrez**)
- 157 - Parametrization of Sensory Cinema Projections Through Information Constructs (**Eva Brlek**)
- 111 - Neuroscience and Returning to Work – Post COVID...The Key is Communicating (**Carmine Gibaldi**)

Session 4: Data Science

April 28 | 01:30 PM - 03:30 PM | Lisboa 3

Session Chair: David Jakobsen

- 282 - FLUE: Federated Learning with Un-Encrypted Model Weights (**Elie Atallah**)
- 240 - Digital Redlining: Past and Present Motivations (**Kyra Milan Abrams**)
- 49 - A Category System for Data Properties (**Hermann Bense**)
- 19 - Towards a General Ontology Theory (**Hermann Bense**)
- 106 - Clustering the Nodes of Sparse Edge-Weighted Graphs via Non-Backtracking Spectra (**Marianna Bolla**)
- 162 - Reasoning with Generative AI (**David Jakobsen**)
- 158 - A Review of Speech Recognition and Application to Arabic Speech Recognition (**Omar Mansour**)

Session 5: Machine Learning

April 28 | 03:45 PM - 04:45 PM | Lisboa 1&2

Session Chair: Vincenza Carchiolo

123 - Fingerprint Synthesis From Diffusion Models and Generative Adversarial Networks (Donglin Liu)

83 - Agent for Machine Learning: A Text-to-Model (T2M) Approach (Xisen Wang)

258 - Improving Automatic Detection of Gender-Based Violence in Spanish Song Lyrics Using Deep Learning, Data Augmentation and Undersampling (Claudia Martínez Araneda)

Session 6: Technology Trends

April 28 | 03:45 PM - 04:45 PM | Lisboa 3

Session Chair: Abraham Campbell

242 - Tools and Settings Supporting Music Teachers' E-Learning in Undergraduate Professional Training (Svetlana Karkina)

220 - Exploring Usability Factors in Canvas Educational Applications: An Empirical Analysis (Shabbab Algamdi)

135 - Rice Farmer Registry Framework: Enhancing Government Support with Knowledge Discovery System (Belen Tapado)

293 - Comparative Study of Hand Activity Recognition from Egocentric 3D Hand Pose (Le Van Hung)

Future of Information and Communication Conference 2025

Day 2 - April 29, 2025

Session 7: Security

April 29 | 11:30 AM - 12:45 PM | Lisboa 1&2

Session Chair: Ki-Bong Nam

26 - Enhancing RSA with Random Insertion Method: A New Approach to Secure Cryptography (Ki-Bong Nam)

55 - Deferred Synchronous Communication in a Myo-to-Gesture Device (Klaus Buchenrieder)

81 - Untrustworthy AI: Blockchain as Inhibitor to the Propagation of Disinformation (Neil H. Wasserman)

94 - Evaluation of Post-Quantum Cryptography Signature Scheme on an Automotive Multicore Microcontroller for Real-Time Application (Felix Sinell)

129 - A Modelling Approach for Identifying Normal Activities in Computer Network Communications (Maxence Lannuzel, Brosset David)

Session 8: Artificial Intelligence

April 29 | 11:30 AM - 12:45 PM | Lisboa 3

Session Chair: Abraham Campbell

56 - Human-in-the-Loop Reasoning for Traffic Sign Detection: Collaborative Approach YOLO with Video-LLaVA (Mehdi Azarafza, Ali Ehteshami Bejnordi, Fatima Idrees)

243 - Enhancing Sustainability Decisions: AR and AI in Gamified Public Education for Environmental Decision-Making (Patrick Jost)

156 - Easy Problems that LLMs Get Wrong (Sean Williams, James Huckle)

215 - Vectoring Languages: A High-Dimensional Perspective of Language to Bridge the Gap Between Philosophy and AI Science (Joseph Chen)

236 - The Elephant in the Room: Why AI Safety Demands Diverse Teams (David Rostcheck)

189 - Socratic Dialogue with Generative Artificial Intelligence: Where is the Future? (Janika Leoste)

Session 9: Ambient Intelligence

April 29 | 01:30 PM - 03:30 PM | Lisboa 1&2

Session Chair: Neil H. Wasserman

- 280 - Robots in Healthcare: Measuring Acceptance of Professional Caregivers Towards Finding Key Requirements for System Design (Martine Herpers)
- 197 - Towards CARLA VR: Testing Head-up Displays in CARLA Driving Simulator (Leonardo Vezzani)
- 30 - Industrial Metaverse for Smart Manufacturing: Ecosystem Architecture and Applications (Michael Prummer)
- 292 - Liquid Artificial Intelligence Through IDSA and GAIA-X Integration (Muhammad Waseem)
- 166 - PhytoNode Upgraded: Energy-Efficient Long-Term Environmental Monitoring Using Phytosensing (Eduard Buss)
- 231 - Evaluating the Socio-Economic Impacts of Hyperloop Technology Through the Lens of Labour Market (Aleksejs Vesjolijs)
- 59 - Steering Toward Trustworthiness (Peer M Sathikh)
- 138 - A Human-Centric Architecture for Natural Interaction with Organizational Systems (Miguel Ângelo Guimarães)
- 78 - Centralised Graph-Based Collision-Free Air Traffic Management Approach for Autonomous Aerial Vehicle Navigation (Amadeusz Adrian Horzyk)

Session 10: Artificial Intelligence

April 29 | 01:30 PM - 03:30 PM | Lisboa 3

Session Chair: Kohei Arai

- 120 - Integrating Large Language Models and Brain Decoding for Augmented Human-Computer Interaction: A Prototype LLM-P3-BCI Speller (Andrea Caria)
- 60 - Is it Time to Start Taking the Concept of a Holodeck Seriously? (Abraham Campbell)
- 103 - The Theory of Cybernetics for Managing Human-AI Interactions: A Framework for AI Management (Baran Osmanoglu)
- 159 - "Model Cards for Model Reporting" in 2024: Reclassifying Category of Ethical Considerations in Terms of Trustworthiness and Risk Management (Jake Gord, DeBrae Kennedy-Mayo)
- 174 - Robotic Process Automation in Software Testing: Challenges and Open Research Directions (Marwa Hussein Zaki)
- 239 - Hybrid Long Memory Artificial Intelligence Forecasting Model to Forecast Dhaka Stock Price Values (Shipra Banik)

Session 11: Security

April 29 | 03:45 PM - 04:45 PM | Lisboa 1&2

Session Chair: Ki-Bong Nam

- 73 - Pseudonymisation of SS7 Identifiers by Random Tables (Charles Beumier)
- 22 - A Reformulation of Feedback Shift Register from Practical Viewpoint (Nupur Gupta)
- 139 - Method of PLC's Dependability (Reliability and Cybersecurity) Ensuring in IIoT Systems (Maryna Kolisnyk)
- 54 - Enhancing Cybersecurity in Critical Infrastructure: Utilizing Random Forest AI Model for Threat Detection (Mahnoor Jamil)
- 316 - Towards a Privacy Trade-Off Assessment (Tam Thanh Doan)

Session 12: Computing

April 29 | 03:45 PM - 04:45 PM | Lisboa 3

Session Chair: Neil H. Wasserman

- 257 - Towards the Establishment of a Green Computing Culture in Small and Medium Enterprises (Abdool Mohabuth)
- 226 - Exploring the Relationships Between Third-Party Code Use and Go Project Metadata (Jari Haapasaari)
- 152 - Vehicle Function Offloading: Finding the Optimal Cloud/Edge Application Model (OptiCAM) (Jan Ruhnau)