

# Virtual Agenda - Future of Information and Communication Conference 2025

28-29 April 2025 | Berlin, Germany

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TIME (Germany) CEST/ UTC +2	Mon April 28	Tue April 29
09:15 AM	Delegates Login	Delegates Login
09:30 AM - 11:00 AM	Opening + Keynote Talks <ul style="list-style-type: none"><li>Stefan Schmid, TU Berlin</li><li>Björn Schuller, Technical University of Munich</li></ul>	Keynote Talks <ul style="list-style-type: none"><li>Johannes Nagele, Alexander Thamm GmbH</li><li>Aljoscha Burchardt, DFKI</li></ul>
11:00 AM - 11:30 AM	Break	Break
11:30 AM - 12:45 PM	Paper Presentations <ul style="list-style-type: none"><li>Session 1: Smart Healthcare</li><li>Session 2: Data Science</li></ul>	Paper Presentations <ul style="list-style-type: none"><li>Session 7: Security</li><li>Session 8: e-Learning</li></ul>
12:45 PM - 01:30 PM	Break	Break
01:30 PM - 03:30 PM	Paper Presentations <ul style="list-style-type: none"><li>Session 3: Communication</li><li>Session 4: Data Science</li></ul>	Paper Presentations <ul style="list-style-type: none"><li>Session 9: Computing</li><li>Session 10: Artificial Intelligence</li></ul>
03:30 PM - 03:45 PM	Break	Break
03:45 PM - 05:00 PM	Paper Presentations <ul style="list-style-type: none"><li>Session 5: Machine Learning</li><li>Session 6: e-Learning</li></ul>	Paper Presentations <ul style="list-style-type: none"><li>Session 11: Security</li><li>Session 12: Ambient Intelligence</li></ul>
05:00 PM Onwards		Conference Closing

# Future of Information and Communication Conference 2025

## Day 1 - April 28, 2025

### Session 1: Smart Healthcare

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

- 110 - Intra-Subject Respiratory Motion Modeling Based on 4D CT Images via Diffeomorphic Approach (Yunpu Zeng)
- 224 - Towards Fairness in AI for Melanoma Detection: Systemic Review and Recommendations (Laura Montoya)
- 238 - Revolutionizing Remote Health Monitoring: Autonomous Detection of Cardiac Abnormalities with Customized Dietary Planning (Sanuthi Vihansa)
- 255 - Review of Machine Learning Applications in HB Detection and Anaemia Screening Prognosis Under Clinical Conditions (Trushna Deotale)
- 287 - White Line Detection System for Safe Crosswalk Pedestrian Movement of Visually Impaired Individuals (Joonwoo Bae)

### Session 2: Data Science

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

- 79 - Analysis of Document Representation for Text Classification (Isaac Kobby Anni)
- 101 - Employing WGAN-GP for Synthesizing Biophysical Data: Generating Synthetic EEG for Concentration and Relaxation Level Prediction (Diego Resende Faria)
- 92 - Unstructured Data and its Potential as a Global Infrastructure of Data-Objects (Peggy Bloomer)
- 118 - Implementing Carbon Storage Technology to Combat Climate Change: Utilization of Numerical Simulation and a Variety of Machine Learning Techniques (Ganesh Thakur)
- 173 - Measuring Crime with Double Machine Learning: The Impact of Vancouver's Broadway Subway Extension (Mohamed Aziz Srairi)

### Session 3: Communication

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

- 67 - The Applicability of Artificial Intelligence Solutions in the Management of Telecommunication Industry Companies: The Qualitative Approach (Leszek Ziora)
- 58 - Signals as Cobordisms in Riemannian Manifolds (Tatyana Barron)
- 288 - Planning and Installation of 5G Campus Networks in Hospitals in Rural Areas and Possible Use Cases: A Practical Example (Sebastian Schmidt)
- 136 - Cayley Hashing with Cookies (Vladimir Shpilrain)
- 281 - A Smart and Secure Wireless Sensor Network for Early Forest Fire Prediction: An Emulated Scenario Approach (Ahshanul Haque)
- 7 - One Class of Riccati Equations Integrable in Quadratures: Maple CAS Case Study (Elena Burova)
- 61 - Assessing WLAN 802.11ac vs. 802.11n Using OPNET: An Evaluation of Comparative Performance (Ali Mohd Ali)
- 3 - Implementation of Adaptive Partition Scheduling in Linux (Veselin Stanev)

### Session 4: Data Science

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

- 80 - Is LIME Appropriate to Explain Polypharmacy Prediction Model? (Lynda Dib)
- 171 - Lyrical Sentiment Analysis of Billboard Hits Over the Last Three Decades (Sahan Perera)
- 2 - From 2019 to 2022: Analysing Changes in Skill Requirements for ICT-Related Occupations in Italy Based on Educational Level Through Online Job Advertisements (Adham Kahlawi)
- 199 - Transformer for Time Series: An Application to the S&P500 (Pierre Brugiere)
- 203 - Online Performance Estimation with Unlabeled Data: A Bayesian Application of the Hui-Walter Paradigm (Kevin Slote)
- 245 - Academic Achievement of Higher-Middle Education Students in Chihuahua (Yaimara Cespedes Gonzalez)
- 304 - Robustness Verification for Knowledge-Based Logic of Risky Driving Scenes (Xia Wang)
- 222 - Software Metrics Selection: The Case of Python (Zamira Kholmatova)

### Session 5: Machine Learning

April 28 | 03:45 PM - 05:00 PM

- 108 - Decoding Cellular Complexity: A Deep Learning Expedition in Blood Cell Image Classification ([Safa Shubbar](#))
- 109 - Revolutionizing Cryptocurrency Price Prediction: Advanced Insights from Machine Learning, Deep Learning and Hybrid Models ([Safa Shubbar](#))
- 153 - Deep Learning Models for Traffic Sign Recognition in Ecuador: Challenges and Solutions ([Tene Garces Leonardo Sebastian](#))
- 149 - Robust Face Recognition Under Adversarial Attack Using SARGAN Model and Improved Cross Triple MobileNetV1 ([Sheilla Ann B. Pacheco](#))
- 188 - Reversal Generative Reinforcement Learning ([Po-Lung Wang](#))
- 315 - Machine Learning Enabled Earthquake Classification with Real Time Monitoring and Alert System ([Suresh Sankaranarayanan](#))

### Session 6: e-Learning

April 28 | 03:45 PM - 05:00 PM

- 21 - From Novice to Creator: Examining Student Perspectives on Low-Code Development Environments ([Mary Lebens](#))
- 76 - Using Local Explainability to Analyze Learner Performance in Education ([Lynda Dib](#))
- 207 - Barriers to Computer Science Education in Rural U.S. High Schools: A Qualitative Study ([Charles B. Hodges](#))
- 154 - An E-Learning Tool to Combat AMR ([Gavin Schranz](#))
- 277 - AI and IoT as a Lever for Storytelling in an Educational Environment ([Justino Lourenço](#))

## Future of Information and Communication Conference 2025 Day 2 - April 29, 2025

### Session 7: Security

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

- 134 - Vulnerability Analysis of Vision Backbone Networks: A Retrospect on Transfer Learning ([Chukuemeka Duru](#))
- 191 - Rethinking the Rhetoric of Surveillance in Public Safety: A Critical Discourse Analysis ([Kem Laurin Lubin](#))
- 25 - On the Postquantum Protocol-Based Short Digital Signatures with Multivariate Maps Over Arithmetical Rings ([Vasyl Ustymenko](#))
- 13 - Enhanced Cybersecurity: AI-Driven Phishing Fraud Detection Approach ([Elena Pesotskaya](#))
- 133 - Efficacy of Various Large Language Models in Generating Smart Contracts ([Siddhartha Chatterjee](#))

### Session 8: e-Learning

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

- 63 - Deep Learning of AI: Kazakhstan's Case ([Katyetova Aliya](#))
- 8 - Predictive Modeling for Student Specialization Selection: Analyzing Influences and Developing Tailored Recommendations ([Fouad Alazzawi](#))
- 232 - A Gamification Design Method for Student Motivation and Interaction in Online Learning ([Rubeena Doomun](#))
- 297 - Lifelong Learning E-Learning Education Systems for Sustainable Development and Public Engagement ([Ilaria Baffo](#))
- 275 - Public Engagement in Research and Innovation: Rome Technopole's Spoke 5 Approach ([Valentina Taverna](#))

### Session 9: Computing

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

- 313 - FOVDA: A Federated Architecture for Overcoming Data Silos in Water Domain [Vision] (Malik Luti)
- 87 - From Problem to Solution: A General Pipeline to Solve Optimisation Problems on Quantum Hardware (Tobias Rohe)
- 69 - Representation of a Basic Data Structure in Quantum Computing (Varun teja Puram)
- 125 - Randomized Algorithms for NP Problems and the Schottky Problem (Fred Roush)
- 161 - An Evidence of Addressing Coherence Errors in VQE Observables by Pulse-level VQE Approach (Xiaoan Lin)
- 165 - Fundamental Constructs of Digital Transformation (DT) and Organizational Performance: A Study of a Large South African Municipality (Grant Royd Howard)
- 117 - Acceptability, User Satisfaction Measurement and Comparison of Speech and DTMF for Supermarket-Based Spoken Dialogue System for Shopping (Olufemi Oyelami)

### Session 10: Artificial Intelligence

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

- 72 - Conversational Agents in the Legal Domain: A Systematic Review of the Literature (Marco Magni)
- 107 - The Nature of Intelligence (Barco Jie You)
- 319 - Towards Reflexive AI: A Comprehensive Exploration of Enhancing Social Science Research Through NLP (Shan Shan)
- 253 - Enhancing the Performance of Distributed Generalized Neural Network (Narayan Kandel)
- 317 - A CNN-Based Model for Classifying Arabic Calligraphy Extracted from Images (Eman Alnagi)
- 52 - Exploring the Strength of Extensive Features in Short Poem Genre Classification Using Advanced Feature Engineering (R. Sowmiya)
- 126 - Digital Twins: How Far from Ideas to Twins? (Lu Jingyu)
- 247 - A Comparative Analysis of Fuzzy String Matching Algorithms for Content-Based Ontology Alignment (Mohammed Suleiman Mohammed Rudwan)
- 183 - Future Of Work: The Impact of Intelligent Technologies For Leaders and Knowledge Workers (Ainsley Robin Anesone)

### Session 11: Security

April 29 | 03:45 PM - 05:00 PM

- 96 - A Study on LLMs for Spam Email Classification (Rami Alroobi)
- 260 - Strategic Defense Mechanisms for Mitigating Cybersecurity Threats in Distributed Smart Home IoT Networks (Victor Balogun)
- 116 - Digital Signature Scheme Based on Linear Equations (Yevgen Kotukh)
- 190 - Integrating Situational Awareness and Communication in Information Security Incident Management: A Socio-Technical Perspective (Keshnee Padayachee)

### Session 12: Ambient Intelligence

April 29 | 03:45 PM - 05:00 PM

- 140 - Software Evolution Visualization in Virtual Reality Using the Library Metaphor (Peter Kapec)
- 141 - Visual Programming in Immersive Virtual Reality Using UML Sequence Diagrams (Peter Kapec)
- 200 - Confident Talk, AI and VR-Powered Speech Support for Enhancing Communication in Individuals with ADHD (Pezhman Raeisian Parvari)
- 181 - IoT in Healthcare: Opportunities and Challenges in Ghana (Prince Kelvin Owusu)