

ADVANCE PROGRAM

FiCloud 2026

**The 13th International Conference on Future Internet of Things
and Cloud**

MobiWis 2026

**The 22nd International Conference on Mobile Web and
Intelligent Information Systems**

AIBB 2026

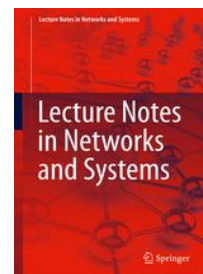
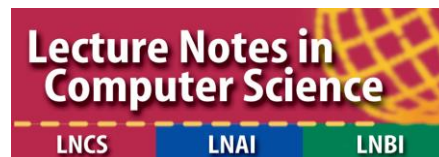
**The 7th Joint International Conference on AI, Big Data and
Blockchain**

20-22 July 2026, Granada, Spain

With Support of:



**IEEE-CS TCI:
Technical Community on
the Internet, IEEE CS**



Advance Program 2026

General Information

- The conferences will be held onsite in Granada as well as online via the videoconferences service, **Zoom**.

- The onsite sessions will be held at the conference hotel:

Gran Hotel Luna de Granada

- The online sessions will be held via Zoom. The following information is applicable to presentation via Zoom.

- Authenticated access will be given to participants who registered for the conferences. Participants are requested to get familiarize themselves with the Zoom.
- Paper presentations will be given in a live online format at the scheduled times, via Zoom. Check the conference program for date/time of paper presentation.
- Each paper will have around 15-20 minutes for presentation, followed by Q/A.
- The online delivery mode of presentations will be in a live format via Zoom

- Link to **Granada, Spain, Time Zone**

KEYNOTE

Emerging Approaches to Resource Management and Scheduling in the Mist–Fog–Cloud Continuum

Prof. Helen Karatza

Department of Informatics

Aristotle University of Thessaloniki, Greece

Summary:

The rapid proliferation of Internet of Things (IoT) technologies has transformed the computing landscape, placing unprecedented demands on traditional cloud-centric architectures. The massive volume of distributed data, coupled with stringent latency and reliability requirements, has accelerated the adoption of edge-oriented computing paradigms. Within this context, Fog and Mist computing have become fundamental components of the edge computing system, enabling computation to be progressively shifted from centralized cloud platforms toward network edges and even directly onto end devices. This keynote examines the challenges and opportunities associated with orchestrating computational resources across the cloud–fog–mist continuum, with particular emphasis on scheduling mechanisms for real-time and mission-critical IoT applications. It reviews contemporary approaches that balance latency, resource utilization, energy efficiency, and quality of service while satisfying application deadlines in highly dynamic environments. The presentation also discusses emerging technologies, including adaptive scheduling, highlighting the key research challenges that will shape next-generation edge computing infrastructures.

Biography:

Helen Karatza (senior member of IEEE, ACM, SCS) is a Professor Emeritus in the Department of Informatics at the Aristotle University of Thessaloniki, Greece. Dr. Karatza's research interests include cloud, fog and mist computing, energy efficiency, fault tolerance, resource allocation, scheduling algorithms and real-time distributed systems. Dr. Karatza has authored or co-authored over 270 technical papers and book chapters. She has received the ACM SIGSIM Distinguished Contributions Award 2025. She is included in the list of the world's top 2% of scientists (Stanford University rankings), and also in the 12th edition of the Research.com best computer science scientists ranking list, 2026. She served as an elected member of the Board of Directors at Large of the Society for Modeling and Simulation International. She also served as chair and keynote speaker at international conferences. Dr. Karatza is Senior Associate Editor of the Elsevier journal

"Simulation Modelling Practice and Theory", an Editor of "Future Generation Computer Systems" of Elsevier, and the Topical Editor for Edge Computing of IEEE Transactions on Services Computing. She was Editor-in-Chief of the Elsevier journal "Simulation Modelling Practice and Theory", Editor-in-Chief of "Simulation Transactions of The Society for Modeling and Simulation International", Associate Editor of "ACM Transactions on Modeling and Computer Simulation" and Senior Associate Editor of the "Journal of Systems and Software" of Elsevier. She served as Guest Editor of multiple Special Issues in international journals. More info about her activities and publications can be found at: <https://karatza.webpages.auth.gr/>

MONDAY, 20 July 2026

09:00-09:30	Opening Session
Conference Opening and Welcome from Organizing Committee	
Onsite Room	Room 1
Online Zoom	Room1-Link

09:30-10:30	Plenary Session - Keynote
Emerging Approaches to Resource Management and Scheduling in the Mist-Fog-Cloud Continuum <i>Helen Karatza, Aristotle University of Thessaloniki, Greece</i>	
Session Chair	Dana Petcu, West University of Timisoara, Romania
Onsite Room	Room 1
Online Zoom	Room1-Link

10:30-11:00	Tea/Coffee Break
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11:00-12:30	FiCloud S1: Security, Privacy and Trust I
Session Chair	Abu Alam, University of Gloucestershire, UK
Onsite Room	Room 1
Online Zoom	Room1-Link
A Lightweight Intrusion Detection System for Constrained IoT Devices <i>Sofyan Bisher, Anas Fawaza, Tarek Mawed, Edison Pignaton de Freitas and Alexandre dos Santos Roque</i> Online Unsupervised Anomaly Detection with Model Explainability and Human-in-the-Loop Feedback <i>Alex Oacheșu, Ingemar Karl Javier Lundh, Kayode Sakariyah Adewole, Jan A. Persson and Fredrik Karlsson</i> Self-Adaptive Governance for Elastic Privacy in Mental Health Digital Phenotyping <i>Catarina Silva, Tiago Costa and Mário Antunes</i> Utility-Based Task Placement for Sustainable Anomaly Detection in IoT Edge-Cloud Architectures <i>Ali Jaddoa, Hasanein Alharbi and Lata Nautiyal</i>	

MONDAY, 20 July 2026

11:00-12:30	MobiWis S1: RAG and GenAI
Session Chair	Sezer Goren, University of Massachusetts Dartmouth, USA
Onsite Room	Room2
Online Zoom	Room2-Link
Offline Retrieval-First Retrieval-Augmented Generation on Android: Comparison Between Extractive and Generative Large Language Models <i>Akhil Ananth Vasisht and Sezer Goren</i> Dual-Stream RAG Architecture for Heterogeneous Institutional Data: A Hybrid Neural-Symbolic Approach <i>Dominik Palla, Matej Juhasz, Michal Plechac, Ondrej Krejcar and Ignacio Javier Perez Galvez</i> Practical Governance for SME Automation with Generative AI: A Multi-Case Study on Trust, Usability, and Data Quality <i>Dominik Palla, Lukas Herout, Syed Norris Hikmi Syed Abdullah and Helena Chytilova</i> A Stacking-Based Ensemble Approach with Explainable AI for Enhanced Stroke Risk Prediction <i>Nurul Absar, Zannatun Naim Somaya, Tanjim Mahmud, Md Akash Rahman, Tursunova Shaxnoza, Sindor Sapaev, Mohammad Shahadat Hossain, Karl Andersson, Barno Matchanova and Nazokat Tukhtaeva</i>	

MONDAY, 20 July 2026

11:00-12:30	FiCloud S2: Performance Modelling & Evaluation I
Session Chair	Athman Bouguettaya, University of Sydney, Australia
Onsite Room	Room 3
Online Zoom	Room3-Link
Scheduling Mixed-Criticality Jobs with Different Slack Times along with Tightly Coupled Parallel Jobs <i>Helen Karatza</i> WebAssembly on the Cloud Continuum: A Multi-Architecture Evaluation on Kubernetes <i>Álvaro Vázquez-Rodríguez, David Vila-Pérez, Carlos Giraldo-Rodríguez and Pablo Couñago-Soto</i> Simulation Tests of Codes with Locality, Availability and Scalability Obtained by Plain Tessellation via [7, 3, 4] Simplex Code Graph <i>Frederik Pavelka, Peter Farkaš and Katarína Farkašová</i> Performance Evaluation of Interoperability and Control Implementation for IoT-Based Smart Spaces <i>Sasidhar Varada, Ushasri Mogadali, Deepak Gangadharan, Sachin Chaudhari, Karthik Vaidhyanathan and Anuradha Vатtem</i>	
12:30-13:30	Lunch Break

MONDAY, 20 July 2026

13:30-15:00	FiCloud S3: Security, Privacy and Trust II
Session Chair	Abdellah Zyane, Cadi Ayyad University, Morocco
Onsite Room	Room 1
Online Zoom	Room1-Link
Explainable and Adaptive Intrusion Detection in Digital Twin Environments <i>Ohood Alharbi, Riaz Ahmed Shaikh, Raheel Hassan and Rameez Asif</i> Defending Intrusion Detection Systems from Black-Box Adversarial Threats in OneM2M-Based IoT Networks <i>Hamza Jamiri and Abdellah Zyane</i> Securing the IoT Supply Chain: A Lifecycle-Based Defensive Framework <i>Hafiz Munaam Hussain Tariq, Amin Salem Saleh and Tahreem Khan</i> Mitigating Sybil Attacks in V2X Communication through Cryptographic Trust Anchors <i>Maher Fayyad, Abdullah Awad, Edison Pignaton de Freitas, Wagner Ourique de Moraes and Alexandre Dos Santos Roque</i>	

13:30-15:00	MobiWis S2: Security, Privacy and Trust I
Session Chair	Saw Chin Tan, Multimedia University, Malaysia
Onsite Room	Room2
Online Zoom	Room2-Link
TADER: Trust-Aware Dynamic Expert Routing for Fraud Detection <i>Okan Engin Başar and Şerif Bahtiyar</i> DC Shield: Detection and Classification for Software Defined Networking Attack using Multi-Task Reinforcement Learning with Actor-Critic <i>Jimmy Herawan Moedjahedy and Saw Chin Tan</i> Decision-Making on Cybersecurity in SMEs: Governance-Aligned Offer Design and Tool Adoption <i>Lukas Herout, Dominik Palla, Syed Norris Hikmi, Syed Abdullah and Helena Chytilova</i> Swarm Learning at the Edge: Privacy-Preserving Incremental Knowledge Transfer for Medical AI <i>Burcu Selçuk and Tacha Serif</i>	

MONDAY, 20 July 2026

13:30-15:00	FiCloud S4: Energy Efficiency & Sustainable Computing
Session Chair	Ali Kadhum Idrees, University of Applied Sciences and Arts Dortmund, Germany
Onsite Room	Room 3
Online Zoom	Room3-Link
ELTOS: Energy-Latency Trade-off Optimization Strategy for Microservice Placement in Edge Environments <i>Ida Falco, Ali Kadhum Idrees, Carmine Colarusso, Giovanni Frattini, Rolf Schuster and Eugenio Zimeo</i> Rethinking Data Center Networks for IoT-Driven Environments: A Comparative Analysis of Spine-Leaf, Three-Tier, and Switch-Fabric Architectures <i>Antonio Cortés Castillo</i> Bluetooth Low Energy Communication Security in Wearable IoT Devices: A Fitbit Sense 2 Case Study <i>Hala Strohmier</i> Fairness-Aware Power Allocation for Multi-Carrier IoT Systems via Mutual Information Approximation <i>Ibnu Febry Kurniawan, Fei He and A. Taufiq Asyhari</i>	

15:00-15:30	Tea/Coffee Break
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MONDAY, 20 July 2026

15:30-17:00	FiCloud S5: IoT Services and Applications
Session Chair	Alexandre dos Santos Roque, Halmstad University, Sweden
Onsite Room	Room 1
Online Zoom	Room1-Link
State-Aware Hybrid Concrete-Symbolic Analysis for Automated Vulnerability Discovery in IoT Communication Protocols <i>Gautham Koorma, Isaac Pflaum, Radostin Pachamanov, Vikas Sharma, George Edwards and Mahdi Eslamimehr</i> IoT-based Air Monitoring with Self-Reported Health Outcomes Across Rural–Urban India: A Pilot Study <i>Asritha Arroju, Bhumika Sahu, Sachin Chaudhari and Kavita Vemuri</i> Contextual IoT Service Discovery: TinyML vs. Deep Learning <i>Rafael Teixeira, Mário Antunes, Diogo Gomes and Rui L. Aguiar</i> IoT-Enabled ToD-Aware Pump Scheduling for Cost Reduction in IWS Systems <i>Shirish Chandra Srivastava, Aakash Terala, Ankit Kriti & Sachin Chaudhari</i>	

15:30-17:00	MobiWis S3: Security, Privacy and Trust II
Session Chair	Jimmy Herawan Moedjahedy, Klabat University, Indonesia
Onsite Room	Room 2
Online Zoom	Room2-Link
Selective Disclosure in Web3: A Trustless Access Control Framework for Autonomous Vehicles <i>Halil Efe Aköz and Şerif Bahtiyar</i> Bangla Fake News Detection Using Machine Learning and Deep Learning and Transformer-based Bangla-BERT Model <i>Shaptarshi Sushil Nisha, Robin Das Shuvo, Noortaz Rezoana, Tanjim Mahmud, Md Akash Rahman, Sardor Sabirov, Khayrulla Urozboev, Mohammad Shahadat Hossain, Karl Andersson and Odilbek Kosimov</i> Adversarial Attacks Empowered Framework for Detecting and Mitigating AI-Enabled Threats in Industry 5.0 Cloud Services <i>Samreen Hussain, Abdullah Lakhan, Tor Morten Grønli and Muhammad Younas</i> AI-Driven Collaborative Assembly Line Inspection: System Integration and Deployment Challenges <i>Asya Ünal, Amr Okasha, Ege Çırakman, and Perin Ünal</i>	

MONDAY, 20 July 2026

15:30-17:00	FiCloud S6: AI and Machine Learning Models
Session Chair	Khaled Mahmud, Sheridan College, Canada
Onsite Room	Room 3
Online Zoom	Room3-Link
A LightweightL Framework for Crop Selection and Yield Estimation on Low-End Devices <i>Arpi Das, Tanjim Mahmud, Md Akash Rahman, Mohammad Shahadat Hossain, Karl Andersson, Nazokat Tukhtaeva, Yuldasheva Gulora, Bekzod Madaminov and Barno Matchanova</i> Deep Learning-Enhanced Trajectory Generation for Knee Exoskeletons: Integrating Physics-Based Priors and Customized Loss Functions <i>Mohammad Irshaid, Nouredin Elhendawi, Ahmad Aljarah, Taimur Hassan and Irfan Hussain</i> Semi-Supervised and Self-Supervised Approaches to Handle Label Scarcity in the PlantVillage Corn Dataset <i>Palash Hossen, Tanjim Mahmud, Md Akash Rahman, Mohammad Shahadat Hossain, Karl Andersson, Nazokat Tukhtaeva, Yuldasheva Gulora, Bekzod Madaminov and Barno Matchanova</i> An AI-Driven Technique for Timely Detection of Risks and Memory Lapses for Elderly Individuals <i>Shikharesh Majumdar and Arshdeep Kaur</i>	

19:00-21:00	Welcome Reception/Dinner
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Tuesday, 21 July 2026

09:00-10:30	FiCloud S7: Cloud and Edge Computing
Session Chair	Helen Karatza, Aristotle University of Thessaloniki, Greece
Onsite Room	Room 1
Online Zoom	Room1-Link
STORE: Self-Provisioning Storage-as-a-Service for Serverless Functions <i>Florian Trimmel, Cynthia Marcelino, Thomas Pusztai and Stefan Nastic</i> Reliable State Flush on Spot Cloud VMs: Conservative Frontiers for Stateful Cloud <i>Jiasheng Zhuang, Xinghan Chen and Velimir Dedic</i> Lightweight Machine Learning Framework for QoS-Aware OneM2M Deployments at the Edge <i>Jamal Et-Tousy and Abdellah Zyane</i> Cloud Pipelines for Real-Time Anomaly Detection for Autonomous and Connected Vehicles <i>Khaled Mahmud, Vadim Titov, Alex Kovac and Maurice Henriques</i> Fuzzy-Logic-Based QoS Control in OneM2M: Adaptive Edge-to-Cloud Traffic Offloading <i>Abdellah Zyane and Jamal Et-Tousy</i>	

09:00-10:30	MobiWis S4: Web Services and Applications
Session Chair	Okan Engin Başar, Istanbul Technical University, Türkiye
Onsite Room	Room 2
Online Zoom	Room2-Link
SentiVote: A Web-Based System for Sentiment Analysis of Electoral Candidate Opinions Using Social Media Data <i>Paola Aucapiña, Jostin Vega, Wilmer Rivas and Sang Guun Yoo</i> Orchestration, Service Composition or Choreography - The LiquidAI Interpretation <i>David Hästbacka, Pyry Kotilainen, Tommi Mikkonen, Niko Mäkitalo and Kari Systä</i> An Analysis of the Relationship between HEXACO Personality Factors and UX Evaluation Scores for Web GUIs <i>Masaki Omata and Kota Matsudo</i> Synthetic Empathy in Career Guidance Chatbots: A Knowledge Behavior Gap Model Study <i>Kristian Stoffregen, Thong H. N. Dinh and Agnis Stibe</i>	

Tuesday, 21 July 2026

09:00-10:30	FiCloud S8: Cloud and IoT Services I
Session Chair	Abu Alam, University of Gloucestershire, UK
Onsite Room	Room 3
Online Zoom	Room3-Link
Commit-Message-Augmented Static Analysis of Cross-Site Scripting Fixes in Java Web Applications <i>Abu Alam and Qka Mirza</i> Formal Modeling and GDPR-Aware Design for Internet of Medical Things Systems <i>Masoud Barati</i> Prostate Cancer Recognition using Incremental Transformer Pipeline <i>Abdullah Abouezz, Nour Ashraf, Omar Zainah, Jawad Yousaf, Mohammed Ghazal and Taimur Hassan</i> IoT-Based Estimation and Reduction of Water Age in Drinking Water Coolers <i>Aakash Terala, Nitin Rajasekar, Sachin Chaudhari and Rehana Shaik</i>	

10:30-11:00	Tea/Coffee Break
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11:00-12:30	FiCloud S9: Supervised/Federated Learning Models
Session Chair	Tacha Serif, Yeditepe University, Türkiye
Onsite Room	Room 1
Online Zoom	Room1-Link
SkyGuard-MAE: A Label-Efficient Framework for Real-Time Drone Detection in Restricted Areas using Self-Supervised Learning <i>M. S. Hossain, A. Tahseen, M. F. Rahman, A. Shihavuddin, R. Gani, M. R. Ahmmad Rashid, M. S. Hossain, R. Islam and K. Andersson</i> Reliability-Aware Client Selection in Asynchronous and Heterogeneous Federated Learning <i>Arya Wicaksana, Bayu Anggoroajati, Erza Aminanto and Taufiq Asyhari</i> Annotation-Efficient Surgical Instance Segmentation via Semi-Supervised YOLO Frameworks on Laparoscopic Imagery <i>A. H. Sitab, K. Hasan, P. Hossain, N. J. Oishi, R. Gani, M. R. A. Rashid, M. S. Hossain, R. Islam and K. Andersson</i> Faux Shield: DeepFake Detection and Awareness Platform Based on Advanced Deep Learning Models <i>Q. Abbas, M. A. Ali, M. Shah, N. Mohsin, A. Yousaf and F. A. Farhat</i>	

Tuesday, 21 July 2026

11:00-12:30	MobiWis S5: Mobile Healthcare Applications
Session Chair	Dominik Palla, University of Hradec Kralove, Czech Republic
Onsite Room	Room 2
Online Zoom	Room2-Link
Enhanced Migraine Detection: A Comparative Study of Machine Learning and Deep Learning <i>Manoara Begum, Md Shahanur Mahmud Oni, Md Akash Rahman, Tanjim Mahmud, Tursunova Shaxnoza, Sindor Sapaev, Mohammad Shahadat Hossain, Karl Andersson, Bekzod Madaminov and Nazokat Tukhtaeva</i> A Continuous Cuffless Blood Pressure Monitoring System Using Photoplethysmography <i>Gülşah Gökhan Gökçek, Can Erdal, Begüm Aksoy and Dionysis Goularas.</i> Hybrid Mutual Information and Recursive Feature Elimination Framework for Multiclass Hospital Length of Stay Prediction <i>Poh Zhai Tan and Tan Saw Chin</i> A Device-Agnostic Integration Framework for Heterogeneous Wearables: A Pragmatist Mixed-Methods Evaluation for Remote Healthcare <i>Avnish Singh Jat, Tor-Morten Grønli and George Ghinea</i>	

11:00-12:30	FiCloud S10: IoT and Edge Systems I
Session Chair	Raimundo Claudio da Silva Vasconcelos, Instituto Federal de Brasília, Brazil
Onsite Room	Room 3
Online Zoom	Room1-Link
Benchmarking Plant Disease Detection Models on Degraded Image Quality Running on the Edge Devices <i>Théo Brittain, Nathan Blanpain, Alexandre Roque & E. Pignaton de Freitas</i> Design and Implementation of a Low Cost IoT-Based Meteorological Monitoring Station <i>Raimundo Vasconcelos, Thiago Amorim and Diego Oliveira</i> A Data Fusion-based IoT System for Sensing Fire Event in an Indoor Environment <i>Nidhi Wadhwa and Debopam Acharya</i> A Systematic Review of ENT Disease Diagnostic Methods using Edge AI Devices <i>Aya Badawi, Shamsa Alqubaisi, Tala Alshaer, Safa Mulla, Nafisa Abu Sabah, Jawad Yousaf, Mohammed Ghazal and Taimur Hassan</i> Lightweight IoT Node Offloading Framework for Real-Time Edge Analytics <i>Faizan Haider, Alexandre dos Santos Roque and E. Pignaton De Freitas</i>	

12:30-13:30	Lunch Break
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Tuesday, 21 July 2026

13:30-15:00	FiCloud S11: IoT and Network Security
Session Chair	Irfan Awan, School of Coding & AI, Birmingham, UK
Onsite Room	Room 1
Online Zoom	Room1-Link
An Ensembled Gradient Boosting Algorithm with Partial Penalty Hybrid Imbalance Processing for Multi-Class Classification on IoT Attack Detection <i>Xinyin Miao, Xin Zhang and Jiawei Zhang</i> A Cross-Sector Measurement Study of Internet-Exposed IoT Devices <i>Hafiz Munaam Hussain Tariq, Amin Salem Saleh and Tahreem Khan.</i> Towards a Reference Architecture for Intelligent Anomaly Detection in Software-Defined Networks <i>Rivaldo Fernandes, Bruno L. Dalmazo, André Riker, Rodolfo Ipolito Meneguette, Geraldo Pereira Rocha Filho, Augusto Venâncio Neto and Roger Immich</i> Design and Implementation of Low-Cost Non-Invasive Blood Pressure Measurement Device from photoplethysmography with Signal Quality Assessment <i>Arifa Tanzim, Purba Biswas, Sharfuddin Al Pasha Chowdhury, Tanjim Mahmud, Md Akash Rahman, Mohammad Shahadat Hossain, Karl Andersson, Nazokat Tukhtaeva and Yuldasheva Gulora</i>	

Tuesday, 21 July 2026

13:30-15:00	MobiWis S6: Networking and AI-based Systems
Session Chair	Ondrej Krejcar, Škoda Auto University, Czech Republic
Onsite Room	Room 2
Online Zoom	Room2-Link
GreenPrompt Builder: Design and development of a mobile application for generating sustainable prompts using artificial intelligence <i>Ricardo Antonio Botero Rios.</i> AI-Avatar Social Presence and Metaverse Telepresence as Drivers of Brand Anthropomorphism: The Paradox of Technophilia and Technophobia <i>Xie Jingwen, Shao Zefeng, Nik Mohd Hazrul Nik Hashim, Kifayat Nahiyani Rafi and Mohammad Osman Gani</i> The Multi-Criteria-centric Handover Method using Two-Phase ISL Path's Selection for the LEO Satellite Network <i>Chung-Ming Huang and Thi-Linh-Giang Nguyen</i> A Bi-level Independent-Set-Based Robust Power Control Model for Ultra-Dense 6G Networks <i>Pablo Adasme, Ali Dehghan Firoozabadi, Enrique San Juan and Andres Viveros.</i> VaR- and CVaR-Based Fractional Optimization for Multi-Period UAV Base Station Deployment <i>Juan Pablo Gutierrez, Pablo Adasme and Ali Dehghan Firoozabadi</i>	

Tuesday, 21 July 2026

13:30-15:00	AIBB S1: Convergence of AI, Edge computing and Blockchain I
Session Chair	Jean-Marc Bonnefous, Tellurian Capital Management LLP
Onsite Room	Room 3
Online Zoom	Room3-Link
Keynote 1: Verifiable Intelligence: How Decentralized AI Evolved from Marketplaces to Governance Infrastructure <i>Marcello MARI, ex-SingularityDAO founder & CEO</i> MERCAI: A Decentralized AI Marketplace Prototype for Incentivized Edge Resource Sharing on Blockchain Infrastructure <i>Antonis Gantzios, Alexandros Georgakopoulos, Zoe Petrakou, Alex Papacharalampous, Nuria Pazos Escudero, Raúl López-Blanco</i> An ODRL-Based Decentralized Framework for Licensing Distributed Heterogeneous Hardware Resources for Edge AI Benchmarking <i>Venkata Satya Sai Ajay Daliparthi, Kurt Tutschku, Raúl López-Blanco, Nuria Pazos Escudero, Baptiste Dupertuis, Huguenin-Vuillemin Maïck, and Rebstein Grégoire</i> Invited Talk: On the Viability Bounds of Agentic Payments <i>Daniel Liebau, ESSEC Business School</i>	
15:00-15:30	Tea/Coffee Break

Tuesday, 21 July 2026

15:30-17:00	FiCloud S12: Cloud and IoT Services II
Session Chair	Abdellah Zyane, Cadi Ayyad University, Morocco
Onsite Room	Room 1
Zoom Link	Room1-Link
IoTScal-2CoM-ALO: An Adaptive Load Orchestration Framework for Scalable Collaborative IoT Systems <i>Samira Abourriche, Abdellah Zyane and Abdelilah Ghammaz</i> Real-time pH Monitoring and Alerting System for Wastewater Management <i>Xian Loong Chua and Lillian Yee Kiaw Wang</i> A Semantic Platform for the Management and Search of Digital Product Passports (DPPs) <i>Zoe Levesanou and Kyriakos Kritikos</i> RFID Integrated Framework for Early Identifying Sick Cows Through Gait Speed Analysis <i>Jawad Yousaf, Rejoy Thomas Mathew, Ammar Khaled Aishan, Abdalla Gad, Taimur Hassan, Manuel Silva and Mohammed Ghazal</i>	

15:30-17:00	MobiWis S7: E-Commerce Systems
Session Chair	Ilze Kundzina, The Art Academy of Latvia, Latvia
Onsite Room	Room 2
Zoom Link	Room2-Link
The Impact of Gestalt Principles on Mobile Shopping Cart Usability: A Comparative Qualitative Study <i>Matej Juhasz, Michal Plechac, Dominik Palla, Ignacio Javier Perez Galvez and Ondrej Krejcar</i> The Impact of Mobile E-commerce Interface Complexity on Cognitive Load: A Qualitative Usability Study <i>Michal Plecháč, Matej Juhasz, Dominik Palla, Ignacio Javier Perez Galvez and Ondrej Krejcar</i> From Intent to Spec: A Pipeline for Conversational Visualization <i>Yasmina Tajja, Aylin Siebel, Silvia Faquiri and Ludger Martin</i> Exploring Group Balance in Co-Creation Using a Process-Oriented Group Dynamics Model <i>Ilze Kundzina and Agnis Stibe</i>	

Tuesday, 21 July 2026

15:30-17:00	AIBB S2: Convergence of AI, Edge computing and Blockchain II
Session Chair	Oscar Deniz, Universidad de Castilla - La Mancha, Spain
Onsite Room	Room 3
Online Zoom	Room3-Link
Keynote: Research and Industrial Priorities for AI & Blockchain <i>JM Bonnefous</i> Accelerated Decoding of Centroid Positional Encoding for Instance Segmentation <i>Carmelo Scribano, Filippo Muzzini, Nedyalko Prisadnikov, Mohammad Mahdi, Yuqian Fu, Giorgia Franchini, Danda Pani Paudel, Marko Bertogna, and Luc Van Gool</i> Anonymous Participation in Distributed AI Systems <i>Varesh Mishra and Aysajan Abidin</i> Panel: Distributed AI: Convergence of AI, Edge computing and Blockchain	

19:00-21:00	Conference Dinner
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Wednesday, 22 July 2026

09:00-10:30	FiCloud S13: Performance Modelling and Evaluation II
Session Chair	Lillian Yee Kiaw Wang, Monash University Malaysia
Onsite Room	Room 1
Zoom Link	Room1-Link
Prediction-based Server Selection for Latency-sensitive Inference on CPU-based Edge Servers under Containerized Contention <i>Habtegebreil Kassaye Haile, Ali Kadhum Idrees and Rolf Schuster</i> SLO-Driven Horizontal Container Autoscaling <i>Angelo Marchese and Orazio Tomarchio</i> AttentionNet: Enhancing Encrypted Traffic Classification Accuracy via Attention Mechanisms <i>Kıvanç Onat Türker and Tacha Serif</i> Energy-Efficient Hybrid-Modulated IoT Transceiver with Symbol-Aware Power Amplifier Control <i>Ahmed Badawy, Muhammad Shehab and Amr Mohamed</i>	

09:00-10:30	FiCloud S14: IoT and Edge Systems II
Session Chair	John Harrison Kurunathan, University of Porto, Portugal
Onsite Room	Room2
Zoom Link	Room2-Link
Dynamic Tilt Estimation for Pen Tracking Using a Single Tri-Axial Accelerometer <i>Aditya Ranjan Padhi and Santosh Nannuru</i> DECODE: DEcision tree Capturing Opaque DEcisions via Coverage-Driven Synthetic Sampling <i>José Caçã, José Paulo Santos and Mário Antunes</i> Edge-Based Digital Twins for QoS-Aware Orchestration in Heterogeneous UAV Fleets <i>Matheus Dussin Bampi, Pedro Henrique Morgan Pereira, Edison</i> When New Attacks Emerge: Adaptive Intrusion Detection Systems for IoMT <i>Donato D'Ambrosio, Francesco Cerasuolo, Alfredo Nascita, Giampaolo Bovenzi, Antonio Montieri and Antonio Pescapè</i>	

Wednesday, 22 July 2026

09:00-10:30	AIBB S3: Advanced AI Models
Session Chair	Sthembile Mthethwa, CSIR, South Africa
Onsite Room	Room 3
Zoom Link	Room3-Link
Explainable AI for Multi-Campus Resource Allocation in Higher Education: A Literature Review <i>Frank Samson, Sabine Moebs and Muthoni Masinde</i> Towards Autonomous ERP Systems: An Agentic AI Framework and Industry-Informed Case Analysis <i>Harshani Ranasinghe and Ergun Gide</i> AI-Supported E-Commerce Management in Jewelry Retail: A Design-Oriented Case Study on ERP, Ad Tracking, and Product Monitoring <i>Ercan Erkalkan and Ata Sani Kılıc</i> An LSTM Embedded Deep Learning Architecture in Lung Disease Image Diagnosis <i>Xin Zhang, Xinyin Miao and Jiawei Zhang</i>	
10:30-11:00	Tea/Coffee Break

Wednesday, 22 July 2026

11:00-12:30	FiCloud S15: AI and Machine Learning Models II
Session Chair	Saeed Sharif, University of East London, UK
Onsite Room	Room 1
Zoom Link	Room1-Link
Machine Learning-Based Multiclass Classification of Migraine Subtypes Using Symptom-Level Data <i>Saeed Sharif, Michael Ademola Anthony, Daniel Okoroma and Wael M El-Medany</i> AI-Based Personalized Slideshow Generator for Daily Media Summaries <i>Mohammed A. Ghazal, Syrin Alabrach, Abdalla Said Gad, Mohammed Al-Hadeethi, Hadil Salman, Maha Yaghi, Sajid Khawaja and Jawad Yousaf</i> Federated Learning for Official Statistics: Architectural Solutions and Privacy Challenges <i>Hooreya Khunji, Wael M El-Medany and Saeed Sharif</i>	

11:00-12:30	FiCloud S16: AI and Mobile Systems
Session Chair	Samuel Baraldi Mafra, INATEL, Brazil
Onsite Room	Room 2
Zoom Link	Room2-Link
A Review of Embedded Vein Visualization and Hyperglycemia Prediction systems <i>Mahek Fathima Ameen, Shadia Iyad Samaan, Tala Hamed Hassouneh, Fatima Hassan Al Hamadi. Areebah Zahid Aslam, Jawad Yousaf, Mohammed A. Ghazal and Taimur Hassan</i> Insectopedia: An On-Device Mobile Pipeline for Fine-Grained Agricultural Pest Identification <i>Shafiul Kalam, Ali Kalakech, Taha Shahzad, Ziad Kobti and Masoud Akhshik</i> PalmShield: A Climate-Smart AI Mobile Platform for Sustainable Date Palm Health Monitoring <i>Housein Kahhoul, Abdulhadi Mohammed Haidar, Uzair Ahmed Khan, Jawad Yousaf, Rahaf Ajaj and Mohammed A. Ghazal</i> Integrating Quantized Edge AI and LoRaWAN for Visual-Based Wildlife Detection in Connectivity-Limited Regions <i>Muhammad Fadly, Muhammad Bondan V Ramadhan, Helena Widiarti and A. Taufiq Asyhari</i>	

Wednesday, 22 July 2026

11:00-12:30	AIBB S4: AI and Blockchain Services
Session Chair	Frank Samson, Baden-Württemberg Cooperative State University, Germany
Onsite Room	Room 3
Zoom Link	Room3-Link
A Zero Trust Architecture for Dynamic Identity and Access Management of IoT Devices <i>Sthembile Mthethwa</i> From Narrative Claims to Verifiable Trust: A Blockchain-Enabled Audit Framework for AI Sys-tems Using NAS-BCI <i>Richard Bulan</i> A Parallel Approach for Emotion Recognition and Primary-User Detection for Context-Aware Monitoring <i>Arshdeep Kaur and Shikharesh Majumdar</i> Using AI to Develop Cybersecurity Vulnerability Assessment Matrices <i>Roberto Mejias</i>	
12:30-13:30	Lunch Break

Wednesday, 22 July 2026

13:30-15:00	FiCloud S17: Deep Learning and Cybersecurity
Session Chair	Abu Alam, University of Gloucestershire, UK
Onsite Room	Room 1
Zoom Link	Room1-Link
Mapping Cyber Security Certifications to CyBOK: A Comparative Study of Breadth, Depth, and Professional Orientation <i>Lata Nautiyal, Ali Jaddoa and Marius Constantin Ilau</i> A Hybrid Deep Learning Approach for Ransomware Detection Using 1D-CNN and DistilBERT <i>Noor Muhannad Ahmed, Hasanein Alharbi and Ali Jaddoa</i> SmartGuard: A Deep Learning and IoT-Enabled Smart Surveillance Framework for Data-Driven Community Safety and Threat Prevention <i>Mahmud Ahmed</i> Comparative Cost and Performance Analysis of General-Purpose Compute Instances Across AWS, Azure, GCP, and OCI <i>Rahul Sadhwani</i>	

13:30-15:00	FiCloud S18: Energy Management in Cloud-IoT Systems
Session Chair	Radha K. Reddy P., Manipal Institute of Technology, India
Onsite Room	Room 2
Zoom Link	Room2-Link
Runtime-Adaptive Payload Compression with Analytical Energy Threshold for WiFi IoT Nodes <i>Luis Enrique Cardozo Ramirez and Samuel Baraldi Mafra</i> Energy-Efficient Adaptive Zero Trust Security for Automotive CAN Networks <i>Aditi Kalgi, John Harrison Kurunathan, Yulliwas Ameer, P Radha Krishna Reddy and Samia Bouzefrane</i> Evaluation of File Systems for Energy-aware and Real-time Constrained Embedded Systems <i>Samuel Henrique Dalmas, Alexandre dos Santos Roque, Daniel Henrique Pohren and Edison Pignaton de Freitas</i> Survey of Low-Power Single-Clock-Edge-Triggered Flip-Flops using FreePDK 45nm: Challenges and Trends for IoT Applications <i>Polukh Polukhov, Jonathan Terbush, Jose Garcia, Tom Springer and Peiyi Zhao</i>	
End	