



The 6th International Aviation Management Conference (IAMC-2026)

16-17 November 2026



Conference Programme

Venue: Emirates Aviation University, Dubai
International Academic City

Day 1 – Monday 16 November 2026

08:30 – 09:00	Delegate Arrival & Registration
Venue	Auditorium
Moderator	Shereen Afana, Senior Registrar, Emirates Aviation University, UAE
09:00 – 09:05	Official Inauguration of the Conference by His Highness Sheikh Ahmed bin Saeed Al-Maktoum , Chairman and Chief Executive for Emirates Airline & Group
09:05 – 09:10	Opening Address by Prof. Dr. Ahmad Al Ali , Vice-Chancellor – Emirates Aviation University

Keynote Speakers

Venue	Auditorium
Session Title	Industry Perspectives
Moderator	Shereen Afana, Senior Registrar, Emirates Aviation University, UAE
09:10 – 09:30	Talal Al Hammadi – Vice President of Air Traffic Development at Dubai Air Navigation Services (DANS) <i>The Question Nobody's Asking: Are We Digitizing Towards the Right Future? The Future of Air Navigation Service</i>
09:30 – 09:50	Kashif Khalid – Director – Operations, Safety & Security Affairs, IATA <i>Future Trends Driving Transformation in Aviation: IATA Global Passenger Survey</i>
09:50 – 10:10	Mohammed Abubaker Farea – Former ICAO Middle East Regional Director <i>Digital Transformation in Aviation: The Future of Innovation and Efficiency from a Regulatory Perspective</i>
10:10 – 10:30	Dr. Selda Konukcu – Senior Director of Commercial Aircraft Sales at Airbus <i>Beyond Digital: Transforming Aviation Through Innovation, Leadership and Business Value</i>
10:30 – 10:50	Break
Venue	Auditorium
Session Title	Future Aviation & Resilience
Session Chair	Dr. Ahlam Al-Zoubi , Head of Department, Faculty of Business Management, Emirates Aviation University, UAE
10:50 – 11:10	Prof. Bijan Vasigh – Professor of Economics and Finance at Embry-Riddle Aeronautical University <i>The Economics of Aviation Fuel Efficiency, SAF, and Future Propulsion</i>

Paper Presentations

11:10 – 11:30	The Influence of Digital Cabin Simulations on Premium-Cabin Upgrade Response: A Cognitive Load Theory Approach Ahmad Alsuwaidi and Amanda Davies
11:30 – 11:50	Digital Transformation and the Global Aviation Industry: The Human Factor Darren Ellis and Dominique Bovell

11:50 – 12:10		Building Resilient Air Transport through Digital Transformation: Evidence on AI, IoT, and Digital Twins Serafeim Tsiakalos and Ioulia Poulaki	
12:10 – 12:20		Break	
Venue	Auditorium		
Session Title	AI, Maintenance & Smart Airports		
Session Chair	Prof. Paul Chiambaretto, Professor of Marketing and Strategy, Montpellier Business School, France		
12:20 – 12:40	AI-Driven Predictive Maintenance and Digital Twin Integration: A Dynamic Capabilities–Diffusion Synthesis Framework for Middle East Airlines Mohamed Ali Habiba		
12:40 – 13:00	Building Resilient Smart Airport Operations: A Discrete Event Simulation Study of Dynamic Check-in Resource Allocation at Changi Airport Terminal 5 Dickson Goh, Malcolm Chua, Tricia Teo and Wen-Chun Tseng		
13:00 – 14:00		Lunch	
Paper Presentations			
Venue	Auditorium	Seminar Room	Library-PhD Lab 1
Session Title	Passenger Services & Revenue	Smart Airports & Resilience	Airside AI & Safety
Session Chairs	Dr. Sven Maertens, Research Associate, German Aerospace Center, Germany	Dr. Viktoriia Ivannikova, Assistant Professor in Aviation, Dublin City University, Ireland	Prof. Kaitano Dube, Distinguished Professor of Aviation, UNISA, South Africa
14:00 – 14:20	Human-in-the-Loop AI in Airport Disruption Management: Passenger Communication, Service Recovery and Operational Resilience Carlo Riccardo Raggi	AI-Driven Digital Transformation for Sustainable Airports: An AI Sustainability Readiness Framework for MENA Airports Mayada Ziad	Unsupervised Foreign Object Detection in Airport Runways and Adjacent Airside Surfaces Using Autoencoder-Based Neural Networks Mawada Tawfik, Blessy Trencia Lincy Simon Shepherd and Ayman Kassem
14:20 – 14:40	Bayesian Distributional Advice for Automated Single-Leg Revenue Management: A Simulation of Dynamic Booking Decisions Peihong Liu	Data-Driven Operational Intelligence for Turnaround Recoverability in Digitally Transformed Airline Ground Operations Javid K.S. Jaffer and Thomas Mgonja	AI-Driven Digital Twin for Proactive Disruption Management and Operational Stress Assessment in Airport Operations Dhanu Sree Suresh, Deepudev Sahadevan, Hannah Al Ali and Zindoga Mukandavire
14:40 – 14:50		Break	
Venue	Auditorium	Seminar Room	Library-PhD Lab 1
Session Title	Aircraft Prognostics & Health	Automation & Smart Operations	Digital Twins & Maintenance
Session Chairs	Dr. Sven Maertens, Research Associate, German Aerospace Center, Germany	Dr. Viktoriia Ivannikova, Assistant Professor in Aviation, Dublin City University, Ireland	Prof. Kaitano Dube, Distinguished Professor of Aviation, UNISA, South Africa

14:50 – 15:10	HyPHM-Net: An Adaptive Gated Hybrid Prognostic Framework for Interpretable Remaining Useful Life Prediction of Aircraft Engines <i>Rekha R Nair, Tina Babu, Deepudev Sahadevan, Balamurugan Balusamy and Shalini Joseph</i>	The Role of Automation in Reducing Human Errors in Air Traffic Control Operations: A Case Study of ASECNA Flight Information Regions <i>Mamane Mactar Abdoul Kadri Boubé</i>	Quantifying the Impact of Digital Twin-Enabled Fleet Management, AI, Edge Computing, and Cyber-Resilience on Aviation Operations <i>Vidhya Viswambaran and Anju Anna Jacob</i>
15:10 – 15:30	AI-Based Aeroengine Health Monitoring for Digital Transformation in Aviation Operations <i>Jean Al-Am, Abdelrahman Elsayed Fethi, Bassem Djedi and Ahmad Sedaghat</i>	A Pilot Study of Industry 4.0 and Lean Integration for Sustainable Smart Cabin Operations in Commercial Aviation <i>Fatemeh Abdolaziz Sadighi</i>	Deep Learning-Based Predictive Maintenance for Aircraft Turbofan Engines Using an Attention-Enhanced LSTM Autoencoder <i>Saeed Rashed Alyammahi and Disha Kaur Phull</i>
15:30	End of Day 1 Technical Programme		
19:00 – 22:00	Gala Dinner: TBA		



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Day 2 – Tuesday 17 November 2026

08:00 - 08:30 | Delegate Arrival

Paper Presentations

Venue	Auditorium
Session Title	Policy, Sustainability & Adoption
Session Chair	Prof. Elmar M. Giemulla , Professor of Aviation Law, Technical University Berlin, Germany
08:30 – 08:50	Evaluating Corporate Performance upon Sustainability: The Case of Airport Operators <i>Dimitrios Dimitriou, Maria Sartzetaki and Aristi Karagkouni</i>
08:50 – 09:10	Digital Transformation in European Aviation: The Role of EASA and the EU in Enabling Environmental Sustainability <i>Agnieszka Fortońska</i>
09:10 – 09:30	Cross-National Differences in the Acceptance of Airport Digital Immigration Technologies: Evidence from Smart Pass and Automated Border Control at Incheon International Airport <i>Yu-Jin Choi and Jung Kyu Choi</i>

09:30 – 9:50 | Networking Break

9:50 – 10:00 | Transition to Parallel Sessions

Venue	Auditorium	Seminar Room
Session Title	AI, Regulation & Aviation Systems	Data-Driven Aviation Operations
Session Chairs	Wolfgang Grimme , Business Economist, German Aerospace Center, Germany	Prof. Paul Chiambaretto , Professor of Marketing and Strategy, Montpellier Business School, France
10:00 – 10:20	A Legal and Regulatory Analysis of AI Applications in the European Union and Emerging Technologies in Aviation <i>Malik Almajdalawi and Sivadath Madhu Menon</i>	Green Aviation and Contrail Avoidance: A Big Data Framework for UAE Aerospace <i>Femina Anzil, Zainab Rasheed and Mostafa Kamil</i>
10:20 – 10:40	Scalable EEG-Based Cognitive Workload Detection for Commercial Aviation: A Distributed Machine-Learning Framework <i>Mawada Tawfik, Zainab Rasheed, Rukshanda Kamran and Alyaa A. Hamza</i>	A Hybrid LSTM-XGBoost Framework for Predictive Maintenance Based on Manufacturing Sensor Data <i>Tina Babu, Rekha R Nair, Deepudev Sahadevan, Balamurugan Balusamy and Shalini Joseph</i>
10:40 – 11:00	A Data-Driven Framework for AI-Based Aircraft Classification: Integrating PCA and t-SNE in an Aircraft Dataset <i>Samreen Mohideen and Mostafa Kamil</i>	Impact of Transatlantic Joint Ventures on Flight Scheduling <i>Bassam Tariq, Volodymyr Bilotkach and Gulnaz Bulbul</i>

11:00 – 11:10 | Break

Venue | **Auditorium**

Seminar Room

Session Title	Training, Learning & Human Capability	Strategy, Resilience & Inclusion
Session Chairs	Prof. Kaitano Dube , Distinguished Professor of Aviation, UNISA, South Africa	Dr. Viktoriia Ivannikova , Assistant Professor in Aviation, Dublin City University, Ireland
11:10 – 11:30	The Role of Immersive Technologies in Aircraft Maintenance Training: A Study of Virtual, Augmented, Mixed, and Extended Reality <i>Abdullah Ahmed Albudoor, Majed Sultan Aljneibi, Mohamed Bintowq Alhosani, Saif Suhail Alameri, Munir Elfarra and Gurkem Yalin</i>	Airline Premium Seat Capacity as a Demand Proxy: A Corridor Scoring and Capital Allocation Framework for UAE Business Aviation <i>René Armas Maes</i>
11:30 – 11:50	The Use of Virtual Reality in the Training of High-Loader Operators <i>Kierzkowski Artur, Kisiel Tomasz and Mardeusz Ewa</i>	Exploring Supply Chain Disruptions and Boeing Aircraft Production <i>Faisal M. A. H. M. Alkandari and Sevda Ahmadian</i>
11:50 – 12:10	Understanding the Level of Self-Efficacy and Optimism of Aviation Students in Comparison to Non-Aviation Students <i>Selim Ozyurek and Alayna St. Clair</i>	Enhanced Framework for Digital Inclusion of Women in Aviation: A Systematic Literature Review <i>Nasreen Khan, Bhavana Rajeev and Annamalai Chockalingam</i>
12:10 – 12:20	Break	
Venue	Auditorium	Seminar Room
Session Title	AI Forecasting & Decision-Making	Digital Operations & Accessibility
Session Chairs	Dr. Sven Maertens , Research Associate, German Aerospace Center, Germany	Dr. Attila Sipos , Senior Researcher, Ludovika University of Public Service, Hungary
12:20 – 12:40	AI-Augmented Visibility Forecasting for Aviation: A Spatiotemporal Graph Neural Network for the Middle East <i>Yacob T. Tesfaldet, Seyed R. Mousavi, Hannah Al Ali, Zindoga Mukandavire and Alireza Daneshkhah</i>	A Scalable Apache Spark Framework for Aviation Disruption Prediction and Constraint-Based Flight Rescheduling <i>Riham Arab, Zainab Rasheed and Blessy Trencia Lincy Simon Shepherd</i>
12:40 – 13:00	Effects of Artificial Intelligence Trust and Acceptance on Go-Around Decision-Making in Collegiate Pilots <i>Selim Ozyurek</i>	Digital Transformation in Airport Accessibility Services: Staff Perceptions for Autonomous Wheelchair Adoption at Singapore Changi Airport <i>Ashlyn Low, Maghfirah Jamaludin and Wen-Chun Tseng</i>
13:00 – 14:00	Lunch	
Venue	Auditorium	
Session Title	Airspace Innovation & Aviation Policy	
Session Chair	Dr. Ahlam Al-Zoubi , Head of Department, Faculty of Business Management, Emirates Aviation University, UAE	
14:00 – 14:20	The Innovations of “New Airspace” by Unmanned Aircraft Systems Traffic Management (UTM): Security Challenges for Drones <i>Attila Sipos</i>	
14:20 – 14:40	Location Costs and Other Framework Conditions in a Transforming Aviation Market: Policy Implications for Germany’s Air Transport Sector <i>Sven Maertens, Thorsten Ehlers, Maximilian Engel, Wolfgang Grimme, Katrin Kölker, Katrin Oesingmann, David Plesch, Maurice Timmer and Florian Wozny</i>	
14:40 – 14:50	Closing Session: Prof. Dr. Ahmad Al Ali, Vice-Chancellor – Emirates Aviation University	