

The 2nd International Conference on Aviation Future: Challenges and Solutions 2023

11-13 October 2023

Agenda

Venue: Tan Son Nhat Pavillon, 02 Hoang Van Thu Street, Ward 9, Phu Nhuan District, Ho Chi Minh City, Vietnam

Wednesday, October 11 (Vietnam time)

08:00-11:30

Conference Registration

Location : Tan Son Nhat Pavillon Convention Center

09:00-10:00

Opening remarks

Location: Diamond Lobby

09:00-09:10

Dancing performance

09:10-09:50

Welcome remarks from Government Official

Deputy Minister Le Anh Tuan - Ministry of Transportation of Vietnam

Welcome remarks from Civil Aviation Authority of Vietnam

DG Dinh Viet Thang

Congratulation messages from Airbus

Head of Rep. Office of Airbus in VN

Congratulations messages from a representative of Diplomatic Delegations

Welcome remarks from the Organizing Committee

(Vietnam Expo & Vietnam Aviation Academy & Worms University of Applied Sciences)

09:50-10:00

Opening Ceremony – Ribbon cutting

10:00-10:45

Discussion Panel

Location: Diamond Lobby

Moderator: Prof. Dr. Richard Klophaus, Worms University of Applied Sciences, Germany

Asia Pacific Global Market Forecast

Representative of Airbus – Asian – Pacific Region

Orientation of application and development for modern science technology to serve for sustainable development of the civil aviation industry
Deputy DG of Civil Aviation Authority of Vietnam (CAAV) – Ho Minh Tan

10:40-11:00

Signing ceremony

Signing ceremony for contracts between Vietnam Aviation Academy and Vietnam Aviation Expo

Signing ceremony for contracts between Vietnam Aviation Expo and partners

11:00-11:30

VIP TOUR

11:30 – 13:00: Lunch on site

13:00-14:30

Keynote speeches

Location: Diamond Lobby

Moderator: Prof. Dr. Tobias Grosche, Worms University of Applied Sciences, Germany

Trends and Challenges in Aviation Industry

Associate. Prof. Dr. Seck Tan, Singapore institute of Technology

Operational Digital Twin Technology for Advanced Air Mobility, AAM

Prof. Dr. Jae-Woo Lee, Konkuk University, South Korea

Air Traffic Management: Challenges and Solutions

Prof. Dr. Frank Fichert, Worms University of Applied Sciences, Germany

14:30-15:00: **Tea break**

15:00-16:30

Keynote speeches

Location: Diamond Lobby

Moderator: Prof. Dr. Christoph Klingenberg, Worms University of Applied Sciences, Germany

Airport Infrastructure: Trends, Challenges and Solutions

Representative of Airports Corporation of Vietnam

Renovation: Hangar solutions for future airport

Richard Hanson – Pre construction Director – John & Reid Son Ltd.

Airport Design: Towards Sustainability

Representative of Groupe ADP, France

17:00-21:00

GALA DINNER

SCIENTIFIC CONFERENCE – AFCS 2023

Thursday, October 12 (Vietnam time)

08:30-10:30

Parallel Session 1

Session 1A

Engineering and Maintenance

Session chair: Hoang Nguyen, Vietnam Aviation Academy, Vietnam & Singapore Institute of Technology, Singapore

□ 08:30-10:30

Room: Diamond 1

PIND-UAM: Physics-Informed Neural Dynamics of Boxed-Wing eVTOL Aircraft for UAM Vehicle Digital Twin"

Minseok Jang, Jeongseok Hyun, Taeho Kwag, Chan Gwak, Tuan Anh Nguyen & Jae-Woo Lee (Konkuk University, South Korea)

Structural development of hydrogen valve for short-range flying vehicles: structure implementation for additive fabrication, post-processing, and in-house fatigue tests
Thanh Binh Cao (Vietnam Aviation Academy, Vietnam), Slawomir Kedziora (University of Luxembourg, Luxembourg) & Tan Dung Le (Vietnam Aviation Academy, Vietnam)

Characteristics of the turbulent flow around a multi-element airfoil under the effects of a wavy ground

Dinh Thang Nguyen, Duy Khanh Tran, Van Quang Anh Vo & Van Luc Nguyen (Vietnam Aviation Academy, Vietnam)

Towards autonomous self-bending 4D printed structures

R. Delbart (The University of Edinburgh, the UK), L. Roumy (CNRS-ENSMA-Université de Poitiers, France) C. Robert (The University of Edinburgh, the UK), TQ. Truong Hoang (ESTACA, ESTACA'Lab – Laval, France) F. Touchard, Damien Marchand (CNRS-ENSMA-Université de Poitiers, France) & F. Martinez-Hergueta (The University of Edinburgh, the UK)

Session 1B

Air transport demand

Session chair: Adam Voak, Vietnam Aviation Academy, Vietnam

□ 08:30-10:30

Room: Diamond 2

Customers' travel decision influences on restoring economic growth after pandemic
Luc Ha Duy Nguyen (International Australian Academy, Vietnam) & Luu The Bao Anh (Ho Chi Minh University of Technology, Vietnam)

Research on factors affecting the behavior of Vietnamese customers choosing AGODA application to book Air tickets online

Huynh Quoc Tuan (Dong Thap University, Vietnam)

Passengers Tendency of Variety Seeking for International Flights in the Post-COVID 19 Pandemic

Syed Far Abid Hossain (BRAC University, Dhaka), Md. Rashed (Dalian University of Technology, China), Mithila Zaman Priasa, Shafiqua Nawar, Tasmia Islam Mowrin (BRAC University, Dhaka) & Wong Chee Hoo (Inti International University, Malaysia)

Research on factors affecting the decision to choose an Airline for travel of individual Vietnamese customers.

Tran Ngoc Tu (Sai Gon University, Vietnam)

10:30-11:00

Tea break

11:00-12:30

Parallel Session 2

Session 2A

Air traffic management

Session chair: Tobias Grosche, Worms University of Applied Sciences, Germany

□ 11:00-12:30

Room: Diamond 1

Applied system dynamics in air traffic management at Tan Son Nhat airport

Hien Ho Thi Vu (Vietnam Aviation Academy, Vietnam) & Hieu Le Thi Hong (Ho Chi Minh City University of Technology, Vietnam)

Capacity planning in electrified Urban Air Mobility by simulating a digital twin of airports and airspace

Branko Bubalo (GAP Project, Germany)

How ANSP mergers might affect traffic distribution and congestion

Thi Thuy An Vo & Frank Fichert (Worms University of Applied Sciences, Germany)

Session 2B

Logistic and air transport management

Session chair: Ha Nam Khanh Giao, Vietnam Aviation Academy, Vietnam

□ 11:00-12:30

Room: Diamond 2

Sustainable distribution solutions for humanitarian logistics: an approach using turner's the incubation of disaster model

Ho Thi Thu Hoa (International University, Vietnam), Nguyen Ngoc Diem (Ho Chi Minh University of Transport, Vietnam, Solent University, Southampton, the UK)

Innovative Strategies for Logistics Excellence: A Comparative Analysis of e- Logistics Implementation in FedEx and Viettel Post

Le Thi Thu Du & Nguyen Truong Son (Vietnam)

Factors influencing air passenger choice in ASEAN region

Tran Thi Thai Binh (Vietnam Aviation Academy, Vietnam), Eric Milliot (Université de Nantes, France)

12:30-13:30

Lunch onsite

13:30-15:30

Parallel Session 3

Session 3A (Hybrid session)

Sustainability and SAF

Session chair: Christoph Klingenberg, Worms University of Applied Sciences, Germany

□ 13:30-15:30

Room: Diamond 1

Voluntary carbon offsets in sustainable aviation research: A bibliometric analysis
Nguyen Thi Cam Le (Vietnam Aviation Academy, Vietnam)

Assessment Framework of Regional Airports Sustainability Strategy
Dimitrios Dimitriou, Maria Sartzetaki & Aristi Karagkouni (University of Thrace, Greece)

The pathway to zero-net emission in aviation - How much can we rely on Sustainable Aviation Fuel (SAF)?
Adeline Montlaur, Jovana Kuljanina (Universitat Politècnica de Catalunya, Spain) & Emir Ganić (University of Belgrade, Serbia)

Sustainable Aviation Fuel (SAF): From legislative requirements to action by air operators
Thanh Huyen Vuong (University of Technology Sydney, Vietnamese Australian Scholars and Experts Association, Australia) & Long D. Nghiem (University of Technology Sydney, Australia)

Session 3B

Operations and Safety

Session chair: Richard Klophaus, Worms University of Applied Sciences, Germany

□ 13:30-15:30

Room: Diamond 2

Develop a simulator system of specialized ground vehicles in restricted areas in aerodromes powered by Virtual Reality
Thuan Luu Van, Hien Ho Thi Vu & Vuong Pham Minh (Vietnam Aviation Academy, Vietnam)

Analysis and evaluation of aerodynamic characteristics of super-heavy drone
Huu Vinh Quach, Van Thuan Luu, minh Vuong Pham (Vietnam Aviation Academy, Vietnam) & Song Thanh Thao Nguyen (Ho Chi Minh City University of Technology, Vietnam)

The mediating effect of safety management system on the relationship between safety culture and safety performance in airline industry-An experimental study in Vietnam
Hoang Thi Kim Thoa (Vietnam Aviation Academy, Vietnam)

Virtual Reality in aircraft maintenance: application to an Airbus aircraft system
Nguyen The Hoang (Vietnam Aviation Academy, Vietnam, Singapore Institute of Technology, Singapore), Luu Van Thuan, Nguyen Minh Hien, Nguyen Thi Hai Hang

(Vietnam Aviation Academy, Vietnam) & Seck Tan (Singapore Institute of Technology, Singapore)

15:30-16:00

Tea break

16:00-17:30

Parallel Session 4

Session 4A (Hybrid session)

Cargo and Logistics

Session chair: Frank Fichert, Worms University of Applied Sciences, Germany

□ 16:00-17:30

Room: Diamond 1

Examining the impact of air cargo growth on poor Vietnamese rural and urban households
Eric Tchouamou Njoya (University of Huddersfield, The UK), Peter Forsyth (Monash University, Australia), Hans-Martin Niemeier (Bremen University of Applied Sciences, Germany) & Alexandros Nikitas (University of Huddersfield, The UK)

Inter-Provincial transportation of goods from Ho Chi Minh City in the context of the circular economy development

Thi Thu Thao Huynh, Huynh Nhu Sao Doan, Thi Thu Ha Do & Tan Dat Nguyen (Ho Chi Minh City University of Economics and Finance, Vietnam)

Factors affecting the development of a logistics service chain for agricultural products in the Mekong Delta

Loi Thang Nguyen (FPT University, Vietnam)

Session 4B

Tourism

Session chair: Syed Far Abid Hossain, BRAC University, Bangladesh

□ 16:00-17:30

Room: Diamond 2

The relationship between travel experience and branding image of tourism businesses – The role of airline marketing activities

Vu Mai Chi & Nguyen Nguyen Phuong (Industrial University of Ho Chi Minh City, Vietnam)

A model of factors affecting memorable tourism experience at smart tourism destinations
Nguyen Pham Hanh Phuc (University of Finance-Marketing, Vietnam) & Ha Nam Khanh Giao (Vietnam Aviation Academy, Vietnam)

The influence of destination images, emotional value on the satisfaction and return intention of visitors in Quy Nhon City

Huynh Vu Chi (Ho Chi Minh University of Economics and Finance, Vietnam) & Ha Nam Khanh Giao (Vietnam Aviation Academy, Vietnam)

SCIENTIFIC CONFERENCE AFCS 2023

Friday, October 13 (Vietnam time)

08:30-10:30

Parallel Session 5

Session 5A

Airline market developments

Session chair: Achim I. Czerny, The Hong Kong Polytechnic University, Hong Kong

□ 08:30-10:30

Room: Diamond 1

Customer experience of Vietnam Airlines' sustainable flights and customer engagement behavior - The mediating role of social value

Nguyen Nguyen Phuong & Vu Thi Mai Chi (Industrial University of Ho Chi Minh City)

Breaking economies of scale: commercial and operational viability of all-electric aircraft as regional hub feeder

Christoph Klingenberg (Worms University of Applied Sciences, Germany) & Jens Hujer (Heilbronn University of Applied Sciences, Germany)

The impact of corporate social responsibility on the image of Vietnam air transport market

Le Thi Hanh An (University of Economics Ho Chi Minh City, Vietnam), Nguyen Quynh Tram, Luong Thi Thuy, Do Binh An (Vietnam Aviation Academy, Vietnam)

Airline Market Concentration in Europe

Tobias Grosche (Worms University of Applied Sciences, Germany)

Session 5B

Marketing and LCC

Session chair: Thanh Huyen Vuong, University of Technology Sydney, Vietnamese Australian Scholars and Experts Association, Australia

□ 08:30-10:30

Room: Diamond 2

Intention to buy cheap airline tickets of Ho Chi Minh City consumers

Tran Dieu Hang & Nguyen Thi Ha Giang (Vietnam Aviation Academy, Vietnam)

An Empirical Examination of the Impact of eWom Information on Consumers' Airline E-ticket Purchase Intention. Mediating Role of eWom Adoption

Huỳnh Đình Lê Thu (An Giang University, Vietnam), Phạm Trung Tuấn, (University of Economics and Law, Vietnam) & Nguyễn Thị Diễm Hằng (National University Ho Chi Minh, Vietnam)

The Impact of Corporate Social Responsibility on Customer Loyalty through Brand Trust and Brand Reputation: Evidence from Low-Cost Airlines

Bui Nhat Vuong, Adam Voak (Vietnam Aviation Academy, Vietnam), Nguyen Tan Phuoc, Lam Hoang Dang & Dao Duy Huan (Tay Do University, Vietnam)

Factors affecting the satisfaction of ground lounge service quality for business class priority passengers at Van Don International Airport, Quang Ninh Province, Vietnam

Nguyen Cong Hoan (Vietnam Aviation Academy, Vietnam), Vu Van Vien (Ha Long University, Vietnam) & Nguyen Thi Ngoc Diep (Ho Chi Minh City Open University, Vietnam)

10:30-11:00

Tea break

11:00-13:00

Parallel Session 6

Session 6A

Air transport management

Session chair: TQ. Truong Hoang, ESTACA, ESTACA'Lab – Laval, France

□ 11:00-13:00

Room: Diamond 1

Key issues in air transport management research: A bibliometric analysis

Richard Klophaus (Worms University of Applied Sciences, Germany)

How Customer Experience Promotes Customer Loyalty through Passenger Satisfaction: Does Brand Reputation Matter?

Bui Nhat Vuong, Adam Voak (Vietnam Aviation Academy, Vietnam) & Hasanuzzaman Tushar (International University of Business Agriculture and Technology, Bangladesh)

The Success of Gulf Carriers Explained: The Case of the Australia-UK Airway

Zhang, H. (HK PolyU), Bontemps, C. (TSE), Chen, R. (Comac), Czerny, A. I. (HK PolyU), Lei, Z. (Swinburne University of Technology), van Ommeren, J. (VU Amsterdam)

Optimizing re-planning strategy regarding the airplane's rosters in case of disruption in airlines industry – the case of an airline in Vietnam

Nguyen Kim Thao (Universite Paris Pantheon Sorbonne, France), Nguyen The Hoang (Vietnam Aviation Academy, Vietnam & Singapore Institute of Technology, Singapore), Jean Loup Richet (Universite Paris Pantheon Sorbonne, France) & Nguyen Hai Hang (Vietnam Aviation Academy, Vietnam)

Session 6B

Human Resource Management in Aviation

Session chair: Tran Thi Thai Binh, Vietnam Aviation Academy

□ 11:00-13:00

Room: Diamond 2

From customer pressures into environmental performance – the mediating role of green HRM practices. A study from airway-company in Vietnam

Do Thi Thanh Truc, Ho Nu Tra Giang & Nguyen Quynh Nga (Vietnam Aviation Academy, Vietnam)

Beyond the price: Unlocking the power of service employee self-efficacy in building low-cost airline loyalty in emerging countries

Nguyen Ngoc Duy Phuong (Vietnam National University Ho Chi Minh City, International University, Vietnam), Nguyen Hong Huan (Maharishi International University, USA) & Nguyen Dang Tram Anh (International University, Vietnam)



Aviation employees' innovative work behavior: The roles of servant leadership, job crafting and job autonomy

Hoang Bao Vo (Vietnam Airlines, Vietnam) & Hoang Thi Kim Quy (Vietnam Aviation Academy, Vietnam)

The impact of positive psychological capital on job performance through the mediating role of employees' job satisfaction: Evidence from ground services companies

Bui Nhat Vuong (Vietnam Aviation Academy, Vietnam), Hasanuzzaman Tushar (International University of Business Agriculture and Technology, Bangladesh) & Nguyen Thi Thanh Huyen (University of Economics Ho Chi Minh City, Vietnam)

13:00-14:00

Lunch