

Schedule of Innovation Aviation & Aerospace Industry - International Conference 2020

January 2020, 13th – 17th at Chumphon, Thailand

(IAAI International Conference – 2020)

13 January 2020		
07.00	Registration	
08.00-09.20	Autonomous aerial vehicle challenge 2020 presentation	
09.30-10.30	Opening ceremony	
10.30-11.10	Prof.Daniel Delahaye (Heading of optimization and machine learning group, Ecole Nationale de l'Aviation Civile) give a speech	
11.10-11.50	Mr.Philippe Notry (Heading of air traffic control training management unit, Ecole Nationale de l'Aviation Civile) give a speech	
Lunch		
Session A1: Aviation Technology and Safety & Energy		
13.00-13.40	Mr.BERT MARCELS PORTEMAN(Managing Director of Airbus Flight Operations Services and Airbus Group Thailand) give a speech on topic “Update on an Airbus in Asia Pacific region including Thailand.”	
13.40-14.10	Plenary 1A	Intelligent Landing for Aircraft in the Cordillera Terrain Using Multiple Regression <i>Popphon Laon¹, Ratchaphon Khaemphukhiao¹, Supan Tungitkusolmun¹, Pattarapong Phasukkit¹, Soemsak Yooyen²</i> <i>¹Faculty of Engineering King Mongkut's Institute of Technology Ladkrabang Bangkok, Thailand</i> <i>²Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
14:10-14:40	Plenary 2A	Intelligent air-traffic-management to predict altitude of aircraft for effective landing on the island-landscape airport by using Deep learning approach <i>Siwagorn Pavitpok ¹, Krirkwit Teeravajanadet ¹, Pattarapong Phasukkit ^{1,*}, Supan Tungitkusolmun ¹, Soemsak Yooyen ²</i> <i>¹Faculty of Engineering King Mongkut's Institute of Technology Ladkrabang Bangkok, Thailand,</i> <i>²Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
14:40-15:10	Plenary 3A	Using Multiple Regression for the Prediction of Aircraft Takeoff Airspeeds at the Paro Airport <i>Wara Suwansin¹, Popphon Laon¹, Supan Tungitkusolmun¹, Pattarapong Phasukkit¹, Soemsak Yooyen²</i>

		¹ <i>Faculty of Engineering King Mongkut's Institute of Technology Ladkrabang Bangkok, Thailand,</i> ² <i>Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
15:10-15:40	Plenary 4A	Painting for Aircraft <i>Cherdpong Prapan^{1,*}, Sirachat Jansongserm¹, Thanayot Maneepom¹</i> ¹ <i>Aircraft Rework Facility Center Royal Thai Naval Air Division, Fly Navy, Royal Thai Navy, Thailand</i>
15:40-16:10	Plenary 5A	Study of Passenger Evacuation from the Airbus A330-300 Aircraft <i>Chinnapat Thipyopas¹, Panupong Choochart¹</i> ¹ <i>Faculty of Engineering, Kasetsart University, Bangkok, Thailand</i>
Session B1: Aviation Technology and Safety & Energy		
13:00-13:40	Dr.Masahiro Nakamura(Founder and CEO LEXER Research Inc) give a speech on topic "The role of simulation in industry 4.0 transition."	
13:40-14:10	Plenary 1B	Overview of air-rail passenger transport relationship from 1997 to 2018 <i>Waralee Peetawan^{1,*}</i> ¹ <i>Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
14:10-14:40	Plenary 2B	Conceptualizing eWOM, brand image, and brand attitude on consumer's willingness to pay in the low-cost airline industry in Thailand <i>Somcanae Yodpram^{1,*}, Nuchjarin Intalar¹</i> ¹ <i>Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
14:40-15:10	Plenary 3B	An Exploration on Pilots' and Student Pilots' Perspectives towards the Gender Bias in Thai Aviation Industry <i>Chanikarn Thatchatham¹, Waralee Peetawan^{1,*}</i> ¹ <i>Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
15:10-15:40	Plenary 4B	Perceptions of Thai Aviation Education Students on Consumer Grade Virtual Reality Flight Experiences <i>Jeremy Luisier^{1,*}, Soemsak Yooyen²</i>

		¹ Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand. ² Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.
15.40-16.10	Plenary 5B	Sleeping patterns of Thai Airways flight attendants during the off-duty period using a photovoice technique <i>Vongsa Laovoravit¹, Nirund Thiptananont¹</i> ¹ College of Aviation Development and Training, Dhurakij Pundit University
14 January 2020		
Session A2: Aerospace Engineering		
09:00-9:40		Prof. Cao Chunxiang(Aerospace Information Research Institute, Chinese Academy of Sciences(CAS)) give a speech on topic "Environmental health diagnosis based on remote sensing."
10:10-10:40	Plenary 6A	Time Series Land Cover Mapping and Change Detection Analysis Using Geographic Information System and Remote Sensing, North and West of Africa. <i>Malak HENCHIRI^{1,*}</i> ¹ Qingdao, Shandong, China
10:40-11:10	Plenary 7A	Preliminary Orbit Analysis for Thai Space Consortium Small Satellite <i>Suwat Sreesawet¹, Seksan Jaturat¹, Sittiporn Channumsin¹</i> ¹ Geo-Informatics and Space Technology Development Agency (Public Organization)
11:10-11:40	Plenary 8A	Angle of Attack Sensor for Small Fixed wing Unmanned Aerial Vehicles <i>Kriangkrai Wanngoen¹, Suradet Tantrairatn^{1,*}</i> ¹ School of Mechanical engineering, Institute of Engineering, Suranaree University of technology
Session B2: Aerospace Engineering		
09:00-9:40		Dr.Xu MIN (Aerospace Information Research Institute, Chinese Academy of Sciences(CAS)) give a speech on topic "Applications of Spatial Information Technologies in Public Health."
10:10-10:40	Plenary 6B	Spring Drive UAV Launcher <i>Pramote Thanghom¹, Jeadsada Pinyochon¹, Pitikorn Narathee¹, Supita Weng¹, Sa-arn Surangsee¹</i> ¹ Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.
10:40-11:10	Plenary 7B	A Small Turbojet Engine Test Stand <i>Aim Suracharttumrongrat¹, Wongsatom Norrasing¹, Supanat Aroonseang¹, Ardjit Iumrahong^{1,*}, Kasem Hanrarchana¹</i>

		¹ <i>Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
11:10-11:40	Plenary 8B	Dynamic Simulation of a UAV moving on a Launcher <i>Wiroj Homsup^{1,*}, Jeadsada Pinyochon¹, Pitikorn Narathee¹, Supita Weng¹</i> ¹ <i>Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
Lunch		
Session A3: Aerospace and Applied Sciences Engineering		
13:00-13:40	Prof. Zhao You (National Astronomical Observatories, Chinese Academy of Sciences (CAS)) give a speech on topic "Introduction and progress of APOSOS project."	
13:40-14:10	Plenary 9A	Enhancing the capability of a ground-based optical telescope for Thai National Space objects Observation <i>Peerapong Torteeka^{1,*}, Pakawat Prasit¹, Kritsada Palee¹, Apichart Leckngam¹, Patcharin Kamsing²</i> ¹ <i>National Astronomical Research Institute of Thailand, ChiangMai, Thailand</i> ² <i>Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
14:10-14:40	Plenary 10A	Development of Space traffic management system by GISTDA <i>Sittiporn Channumsin^{1,*}, Suwat Sreesawat¹, Tanin Saroj¹, Phasawee Saingyen¹, Keerati Puttasuwan¹, Seksan Jaturut¹</i> ¹ <i>Geo-Informatics and Space Technology Development Agency (Public Organization)</i>
14:40-15:10	Plenary 11A	Real-time 3D UAV pose estimation by visualization <i>Benjamaporn Nenchoo¹, Suradet Tantrairatn²</i> ¹ <i>Institute of Engineering, Suranaree university of technology.</i> ² <i>School of Mechanical engineering, Institute of Engineering, Suranaree University of technology</i>
15:10-15:40	Plenary 12A	Outlet temperature prediction of boiling heat transfer in helical coils through artificial neural network <i>Krisana Insom¹, Patcharin Kamsing^{2,*}, Thaweerath Phisannopawong², Peerapong Torteeka³</i> ¹ <i>Aeronautical Science and Engineering School, Beihang University, Beijing, 100191, China</i> ² <i>Department of Aeronautical Engineering and Commercial Pilot, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520, Thailand</i> ³ <i>National Astronomical Research Institute of Thailand, ChiangMai 50180, Thailand</i>

Session B3: Aerospace Engineering		
13:00-13:40	Dr.Lalin Kovudhikulrungsri give a speech on topic “Air Law.”	
13:40-14:10	Plenary 9B	High-Lift Mechanism Motion Generation Synthesis Using MHs <i>Suwin Slesongsom^{1,*}</i> <i>¹Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand.</i>
14:10-14:40	Plenary 10B	VW-Aero Engine Cylinder Head Cooling Efficiency Investigation <i>Rapee Ujjin^{1,*}, Choosak Ngaongam¹</i> <i>¹Department of Aviation Maintenance Engineering, College of Engineering, Rangsit University, Pathumthani 12000, Thailand.</i>
14:40-15:10	Plenary 11B	Experimental Investigation of the Ground Effect of WIG Craft - NEW1 Model <i>Rattapol Sakornsins¹, Chinnapat Thipyopas¹, and Siripong Atipan^{1,*}</i> <i>¹Faculty of Engineering, Kasetsart University, Bangkok, Thailand</i>
15:10-15:40	Plenary 12B	Pointing error evaluation of the High spatial Resolution Imaging Camera of BepiColombo space mission <i>Daniele Dipasquale^{1,*}, Stefano Debe^{2,3}, Gabriele Cremonese⁴, Fabrizio Capaccioni⁵, Pasquale Palumbo⁶</i> <i>¹Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut’s Institute of Technology Ladkrabang, Bangkok 10520, Thailand</i> <i>²Centre of Studies and Activities for Space (CISAS) - "G.Colombo", University of Padua, Via Venezia 15, Padova 35131, Italy</i> <i>³Department of Industrial Engineering, University of Padua, Via Venezia 1, Padova 35131, Italy</i> <i>⁴INAF, Osservatorio Astronomico di Padova, Vicolo dell’Osservatorio 3, I-35122 Padova, Italy</i> <i>⁵INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy</i> <i>⁶Dip. Scienze Applicate, Università Parthenope, Centro Direzionale, Isola C4, 80143, Napoli, Italy</i>
17.00-22.00	Welcome dinner	
15 January 2020		
Session A4: Applied Sciences Engineering		
09:00-9:40	Prof. Bruno LAMISCARRE give a speech on topic “System Wide Information Management (SWIM).”	
10:10-10:40	Plenary 13A	Modelling Language for Systems Engineering in Defense Industry <i>Yoothana Suansook^{1,*}</i>

		¹ <i>Defence Technology Institute, Nonthaburi, Thailand</i>
10:40-11:10	Plenary 14A	<p>Impact of Block Chain Adoption for Safe Food Supply Chain Management through System Dynamics Approach from Management Perspectives in Thailand</p> <p><i>Jedsada Tipmontian^{1,*}, Jaime Castellano Alcover², M. Rajmohan³</i></p> <p>¹<i>Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</i></p> <p>²<i>University of Malaga, Malaga, Spain</i></p> <p>³<i>Anna University, Chennai, India</i></p>
11:10-11:40	Plenary 15A	<p>A novel stress tensor-based failure criterion for peridynamics</p> <p><i>Daniele Dipasquale^{1,*}, Arman Shojaei², Soemsak Yooyen¹</i></p> <p>¹<i>Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520, Thailand</i></p> <p>²<i>Department of Structural Research on New Materials, Centre for Materials and Coastal Research, Hamburg, Germany</i></p>
Lunch		
Session A5: Applied Sciences Engineering		
13:00-13:40	Prof. Prof. Mamoru Ishii (Director of Space Environment Laboratory, Applied Electromagnetic Research Institute, National Institute of Information and Communications Technology (NICT)) give a speech on topic "Global Streams of Space Weather Research and Operation and the Role of Asia."	
13:40-14:10	Plenary 16A	<p>AN OPTIMIZATION MODEL FOR ADVANCED LIFE SUPPORT AMBULANCES FACILITY LOCATION PROBLEM</p> <p><i>Kamonchanok Thongsirirungchai¹, Detcharat Sumrit¹</i></p> <p>¹<i>The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University, 25/25 Phuttamonthon 4 Road, Salaya, Nakhon Pathom, Thailand</i></p>
14:10-14:40	Plenary 17A	<p>Optimal transportation cost for end-of-life lead- acid battery reverse logistics: A case study of Thailand</p> <p><i>Detcharat Sumrit¹, Supitcha Siriruttanaruk^{1,*}</i></p> <p>¹<i>The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University</i></p>
14:40-15:10	Plenary 18A	<p>Non-Destructive testing on damaged multi-cores materials sandwich structures</p> <p><i>Laurent Mezeix¹, Komkrisd Wongtimnoi^{1,*}</i></p> <p>¹<i>Burapha University, Chonburi, Thailand</i></p>

15:10-15:40	Plenary 19A	<p>The impact of IT knowledge capability and big data and analytics on firm' s Industry 4.0 capability</p> <p><i>Kwanchanok Chumnumporn ¹, Chawalit Jeenanunta ^{*1}, Somrote Komolavanij¹, Natthawadee Saenluang ¹, Kamonda Onsri ¹, Koraphat Fairat ¹ and Kanchanok Itthidechakhachon ¹</i></p> <p>¹ <i>Sirindhorn International Institute of Technology</i></p>
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