

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 Prapan¹, Sirachat Jansongserm¹, Thanayot Maneepom¹, Chinnawat Sukantarat¹</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 Peetawan¹</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 Yodpram¹, 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 Peetawan¹</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

		<p>Jeremy Luisier ¹, Soemsak Yooyen ² and Samart Deebhijarn ³</p> <p>¹ <i>International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, No. 1, Soi Chalongkrung 1, Ladkrabang, Bangkok, Thailand 10520</i></p> <p>² <i>International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, No. 1, Soi Chalongkrung 1, Ladkrabang, Bangkok, Thailand 10520</i></p> <p>³ <i>College of Educational Innovation Research, King Mongkut's Institute of Technology Ladkrabang, No. 1, Soi Chalongkrung 1, Ladkrabang, Bangkok, Thailand 10520</i></p>
15.40-16.10	Plenary 5B	<p>Sleeping patterns of Thai Airways flight attendants during the off-duty period using a photovoice technique</p> <p>Vongsa Laovoravit ¹, Krit Pongpirul ², Watana Manon ¹, Nirund Thiptananont ¹ and Aurawan Imsombut ³</p> <p>¹ <i>College of Aviation Development and Training, Dhurakij Pundit University, Nonthaburi, Thailand</i></p> <p>² <i>Department of Preventive and Social Medicine, Faculty of Medicine, Chulalongkorn, University, Bangkok, Thailand</i></p> <p>³ <i>College of Creative Design and Entertainment Technology, Dhurakij Pundit University, Nonthaburi, Thailand</i></p>
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	<p>Time Series Land Cover Mapping and Change Detection Analysis Using Geographic Information System and Remote Sensing, North and West of Africa.</p> <p>Malak HENCHIRI¹, Wilson Kalisa¹, Zhang Sha¹ and Jiahua Zhang¹</p> <p>¹<i>Remote Sensing and Climate Change, School of Computer Science and Technology, Qingdao University, Qingdao 266071, China.</i></p>
10:40-11:10	Plenary 7A	<p>Orbit Analysis for Thai Space Consortium Satellite</p> <p>Suwat Sreesawet¹, Seksan Jaturat¹, Sittipom Channumsin¹</p> <p>¹<i>Geo-Informatics and Space Technology Development Agency (Public Organization)</i></p>
11:10-11:40	Plenary 8A	<p>Angle of Attack Sensor for Small Fixed wing Unmanned Aerial Vehicles</p> <p>Kriangkrai Wanngoen¹, Nanthawat Saetunand¹, Watcharapol Saengphet², Suradet Tantrairatn¹</p>

		¹ School of Mechanical engineering, Institute of Engineering, Suranaree University of technology ² iCreativeSystem Co.,Ltd, Nakhonratchasima, Thailand
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	<p>Spring Drive UAV Launcher</p> <p><i>Pramote Thanghom¹, Jeadsada Pinyochon¹, Pitikorn Narathee¹, Supita Weng¹, Sa-arn Surangsee¹</i></p> <p><i>¹Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand.</i></p>
10:40-11:10	Plenary 7B	<p>A Small Turbojet Engine Test Stand</p> <p><i>Aim Suracharttumrongrat ¹, Wongsatorn Norrasing ¹, Supanat Aroonseang ¹, Ardjit Iumrahong¹, Kasem Hanrchan ¹</i></p> <p><i>¹ Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand.</i></p>
11:10-11:40	Plenary 8B	<p>Dynamic Simulation of a UAV moving on a Launcher</p> <p><i>Wiroj Homsup¹, Jeadsada Pinyochon¹, Pitikorn Narathee¹, Supita Weng¹, Nuttaka Homsup²</i></p> <p><i>¹Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand.</i></p> <p><i>²Department of Electrical Engineering, Kasetsart University</i></p>
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	<p>Enhancing the capability of a ground-based optical telescope for Thai National Space objects Observation</p> <p><i>Peerapong Torteeka¹, Pakawat Prasit¹, Kritsada Palee¹, Apichart Leckngam¹, Patcharin Kamsing²</i></p> <p><i>¹ National Astronomical Research Institute of Thailand, ChiangMai, Thailand</i></p> <p><i>² Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand.</i></p>
14:10-14:40	Plenary 10A	Development of Space traffic management system by GISTDA

		<p><i>Sittiporn Channumsin¹, Suwat Sreesawet¹, Tanin Saroj¹, Phasawee Saingyen¹, Keerati Puttasuwan¹, Seksan Jaturut¹</i></p> <p>¹ <i>Geo-Informatics and Space Technology Development Agency (Public Organization)</i></p>
14:40-15:10	Plenary 11A	<p>Real-time 3D UAV pose estimation by visualization</p> <p><i>Benjamaporn Nenchoo¹, Suradet Tantrairatn²</i></p> <p>¹ <i>Institute of Engineering, Suranaree university of technology.</i></p> <p>² <i>School of Mechanical engineering, Institute of Engineering, Suranaree University of technology</i></p>
15:10-15:40	Plenary 12A	<p>Outlet temperature prediction of boiling heat transfer in helical coils through artificial neural network</p> <p><i>Krisana Insom¹, Patcharin Kamsing², Thaweerath Phisannopawong², Peerapong Torteeka³</i></p> <p>¹ <i>Aeronautical Science and Engineering School, Beihang University, Beijing, 100191, China</i></p> <p>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></p> <p>³ <i>National Astronomical Research Institute of Thailand, ChiangMai 50180, Thailand</i></p>
Session B3: Aerospace Engineering		
13:00-13:40	Dr.Lalin Kovudhikulrungsri give a speech on topic "Air Law."	
13:40-14:10	Plenary 9B	<p>High-Lift Mechanism Motion Generation Synthesis Using MHs</p> <p><i>Poothanet Chabphet¹, Supanat Santichatsak¹, Tunnatorn Na Thalang¹, Suwin Slesongsom¹, and Sujin Bureerat²</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>Sustainable and Infrastructure Development Center, Department of Mechanical Engineering, Faculty of Engineering, KhonKaen University, KhonKaen City, 40002, Thailand</i></p>
14:10-14:40	Plenary 10B	<p>VW-Aero Engine Cylinder Head Cooling Efficiency Investigation</p> <p><i>Rapee Ujji^{1,*}, Choosak Ngaongam¹</i></p> <p>¹<i>Department of Aviation Maintenance Engineering, College of Engineering, Rangsit University, Pathumthani 12000, Thailand.</i></p>
14:40-15:10	Plenary 11B	<p>Experimental Investigation of the Ground Effect of WIG Craft - NEW1 Model</p> <p><i>Rattapol Sakornsinsin¹, Chinnapat Thiypopas¹, and Siripong Atipan^{1,*}</i></p> <p>¹<i>Faculty of Engineering, Kasetsart University, Bangkok, Thailand</i></p>

15:10-15:40	Plenary 12B	<p>Pointing error evaluation of the High spatial Resolution Imaging Camera of BepiColombo space mission</p> <p><i>Daniele Dipasquale^{1,*}, Stefano Debei^{2,3}, Gabriele Cremonese⁴, Fabrizio Capaccioni⁵, Pasquale Palumbo⁶</i></p> <p>¹ Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520, Thailand</p> <p>² Centre of Studies and Activities for Space (CISAS) - "G.Colombo", University of Padua, Via Venezia 15, Padova 35131, Italy</p> <p>³ Department of Industrial Engineering, University of Padua, Via Venezia 1, Padova 35131, Italy</p> <p>⁴ INAF, Osservatorio Astronomico di Padova, Vicolo dell'Osservatorio 3, I-35122 Padova, Italy</p> <p>⁵ INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy</p> <p>⁶ Dip. Scienze Applicate, Università Parthenope, Centro Direzionale, Isola C4, 80143, Napoli, Italy</p>
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	<p>Modelling Language for Systems Engineering in Defense Industry</p> <p><i>Yoothana Suansook¹, Tanongsak Taweessi¹</i></p> <p>¹ Defence Technology Institute, Nonthaburi, Thailand</p>
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 Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.</p> <p>² University of Malaga, Malaga, Spain</p> <p>³ Anna University, Chennai, India</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>

		¹ Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520, Thailand ² Department of Structural Research on New Materials, Centre for Materials and Coastal Research, Hamburg, Germany
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	An Optimization Model for Advanced Life Support Ambulances Facility Location Problem <i>Kamonchanok Thongsiriruechai¹, Detcharat Sumrit¹</i> ¹ The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University, 25/25 Phuttamonthon 4 Road, Salaya, Nakhon Pathom, Thailand
14:10-14:40	Plenary 17A	Optimal transportation cost for end-of-life lead- acid battery reverse logistics: A case study of Thailand <i>Detcharat Sumrit¹, Supitcha Siriruttanaruk^{1,*}</i> ¹ The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University
14:40-15:10	Plenary 18A	Non-Destructive testing on damaged multi-cores materials sandwich structures <i>Laurent Mezeix¹, Komkrisd Wongtimnoi^{1,*}</i> ¹ Burapha University, Chonburi, Thailand
15:10-15:40	Plenary 19A	The impact of IT knowledge capability and big data and analytics on firm's Industry 4.0 capability <i>Kwanchanok Chumnumporn¹, Chawalit Jeenanunta¹, Somrote Komolavanij¹, Natthawadee Saenluang¹, Kamonda Onsri¹, Koraphat Fairat¹ and Kanchanok Itthidechakhachon¹</i> ¹ Sirindhorn International Institute of Technology (SIIT), Thammasat University
16 January 2020		Workshop by ENAC
17 January 2020		Workshop by ENAC