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

(IAAI International Conference - 2020)

13 January 2	020	
07.00	Registration	
07.30-09.20	Autonomous aerial vehicle challenge 2020 presentation	
09.30-10.30	Opening cere	emony
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: A	Aviation Techr	nology and Safety & Energy
13.00-13.40	Mr.BERT MAR	CELS PORTEMAN(Managing Director of Airbus Flight Operations Services and Airbus
	Group Thaila	nd) 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
		Popphon Laon ¹ , Ratchaphon Khaemphukhiao ¹ , Supan Tungitkusolmun ¹ ,
		Pattarapong Phasukkit ¹ , Soemsak Yooyen ²
		¹ Faculty of Engineering 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.
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
		Siwagorn Pavitpok ¹ , Krirkwit Teeravajanadet ¹ , Pattarapong Phasukkit ¹ , Supan
		Tungitkusolmun ¹ , Soemsak Yooyen ²
		¹ Faculty of Engineering 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.
14:40-15:10	Plenary 3A	Using Multiple Regression for the Prediction of Aircraft Takeoff Airspeeds at the Paro
		Airport
		Wara Suwansin ¹ , Popphon Laon ¹ , Supan Tungitkusolmun ¹ , Pattarapong Phasukkit ¹ ,
		Soemsak Yooyen ²

		¹ Faculty of Engineering 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.
15:10-15:40	Plenary 4A	Painting for Aircraft
		Cherdpong Prapan ¹ , Sirachat Jansongserm ¹ , Thanayot Maneepom ¹ , Chinnawat
		Sukantarat ¹
		¹ Aircraft Rework Facility Center Royal Thai Naval Air Division, Fly Navy, Royal Thai
		Navy, Thailand
15.40-16.10	Plenary 5A	Study of Passenger Evacuation from the Airbus A330-300 Aircraft
		Chinnapat Thipyopas ¹ , Panupong Choochart ¹
		¹ Faculty of Engineering, Kasetsart University, Bangkok, Thailand
Session B1: A	viation Techr	nology and Safety & Energy
13.00-13.40	Dr.Masahiro I	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
		Waralee Peetawan ¹
		¹ Department of Aviation Industry Innovation and Services, International Academy
		of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang,
		Bangkok, Thailand.
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
		Somcanae Yodpram ¹ , Nuchjarin Intalar ¹
		¹ Department of Aviation Industry Innovation and Services, International Academy
		of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang,
		Bangkok, Thailand.
14:40-15:10	Plenary 3B	An Exploration on Pilots' and Student Pilots' Perspectives towards the Gender Bias in
		Thai Aviation Industry
		Chanikam Thatchatham ¹ , Waralee Peetawan ¹
		¹ Department of Aviation Industry Innovation and Services, International Academy
		of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang,
		Bangkok, Thailand.
15:10-15:40	Plenary 4B	Perceptions of Thai Aviation Education Students on Consumer Grade Virtual Reality
		Flight Experiences

		Jeremy Luisier ¹ , Soemsak Yooyen ² and Samart Deebhijarn ³
		¹ International Academy of Aviation Industry, King Mongkut's Institute of
		Technology Ladkrabang, No. 1, Soi Chalongkrung 1, Ladkrabang, Bangkok,
		Thailand 10520
		² International Academy of Aviation Industry, King Mongkut's Institute of
		Technology Ladkrabang, No. 1, Soi Chalongkrung 1, Ladkrabang, Bangkok,
		Thailand 10520
		³ College of Educational Innovation Research, King Mongkut's Institute of
		Technology Ladkrabang, No. 1, Soi Chalongkrung 1, Ladkrabang, Bangkok,
		Thailand 10520
15.40-16.10	Plenary 5B	Sleeping patterns of Thai Airways flight attendants during the off-duty period using a
		photovoice technique
		Vongsa Laovoravit ¹ , Krit Pongpirul ² , Watana Manon ¹ , Nirund Thiptananont ¹
		and Aurawan Imsombut ³
		¹ College of Aviation Development and Training, Dhurakij Pundit University,
		Nonthaburi, Thailand
		² Department of Preventive and Social Medicine, Faculty of Medicine,
		Chulalongkorn, University, Bangkok, Thailand
		³ College of Creative Design and Entertainment Technology, Dhurakij Pundit
		University, Nonthaburi, Thailand
14 January 2	020	
Session A2: A	Aerospace Eng	ineering
09:00-9:40	Prof. Cao Chu	inxiang(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.
		Malak Henchiri ¹ , Wilson Kalisa ¹ , Zhang Sha ¹ and Jiahua Zhang ¹
		¹ Remote Sensing and Climate Change, School of Computer Science and
		Technology, Qingdao University, Qingdao 266071, China.
10:40-11:10	Plenary 7A	Orbit Analysis for Thai Space Consortium Satellite
		Suwat Sreesawet ¹ , Seksan Jaturat ¹ , Sittiporn Channumsin ¹
		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
		Kriangkrai Wanngoen ¹ , Nanthawat Saetunand ¹ ,Watcharapol Saengphet ² ,Suradet
		Tantrairatn ¹

		 School of Mechanical engineering, Institute of Engineering, Suranaree University of technology iCreativeSystem Co.,Ltd, Nakhonratchasima, Thailand
Session B2: A	l Aerospace Eng	
09:00-9:40	Dr.Xu MIN (Ae	erospace Information Research Institute, Chinese Academy of Sciences(CAS)) give a pic "Applications of Spatial Information Technologies in Public Health."
10:10-10:40	Plenary 6B	Spring Drive UAV Launcher Pramote Thanghom ¹ , Jeadsada Pinyochon ¹ , Pitikorn Narathee ¹ , Supita Weng ¹ , Sa-arn Surangsee ¹ 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 Aim Suracharttumrongrat¹, Wongsatorn Norrasing¹, Supanat Aroonseang¹, Ardjit lumrahong¹, Kasem Hanrchana¹ ¹ Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.
11:10-11:40	Plenary 8B	Dynamic Simulation of a UAV moving on a Launcher Wiroj Homsup ¹ , Jeadsada Pinyochon ¹ , Pitikorn Narathee ¹ , Supita Weng ¹ , Nuttaka Homsup ² ¹ Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand. ² Department of Electrical Engineering, Kasetsart University Lunch
Session A3: A	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 Peerapong Torteeka¹, Pakawat Prasit¹, Kritsada Palee¹, Apichart Leckngam¹, Patcharin Kamsing² ¹ National Astronomical Research Institute of Thailand, ChiangMai, Thailand ² Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.
14:10-14:40	Plenary 10A	Development of Space traffic management system by GISTDA

		Sittiporn Channumsin ¹ , Suwat Sreesawet ¹ , Tanin Saroj ¹ , Phasawee Saingyen ¹ ,
		Keerati Puttasuwan ¹ , Seksan Jaturut ¹
		¹ Geo-Informatics and Space Technology Development Agency (Public
		Organization)
14:40-15:10	Plenary 11A	Real-time 3D UAV pose estimation by visualization
		Benjamaporn Nenchoo ¹ , Suradet Tantrairatn ²
		¹ Institue of Engineering, Suranaree university of technology.
		² School of Mechanical engineering, Institute of Engineering, Suranaree University
		of technology
15:10-15:40	Plenary 12A	Outlet temperature prediction of boiling heat transfer in helical coils through artificial
		neural network
		Krisana Insom ¹ , Patcharin Kamsing ^{2,} , Thaweerath Phisannopawong ² , Peerapong
		Torteeka ³
		¹ Aeronautical Science and Engineering School, Beihang University, Beijing, 100191,
		China
		² Department of Aeronautical Engineering and Commercial Pilot, International
		Academy of Aviation Industry, King Mongkut's Institute of Technology
		Ladkrabang, Bangkok 10520, Thailand
		³ National Astronomical Research Institute of Thailand, ChiangMai 50180, Thailand
Session B3: A	Aerospace Engi	ineering
13:00-13:40	Dr.Lalin Kovu	dhikulrungsri give a speech on topic "Air Law."
13:40-14:10	Plenary 9B	High-Lift Mechanism Motion Generation Synthesis Using MHs
		Poothanet Chabphet ¹ , Supanat Santichatsak ¹ , Tunnatorn Na Thalang ¹ , Suwin
		Sleesongsom ¹ , and Sujin Bureerat ²
		¹ Department of Aeronautical Engineering, International Academy of Aviation Industry,
		King Mongkut's Institute of Technology Ladkrabang, Bangkok, 10520, Thailand
		² Sustainable and Infrastructure Development Center, Department of Mechanical
		Engineering, Faculty of Engineering, KhonKaen University, KhonKaen City, 40002,
		Thailand
14:10-14:40	Plenary 10B	VW-Aero Engine Cylinder Head Cooling Efficiency Investigation
		Rapee Ujjin ^{1,*} , Choosak Ngaongam ¹
		¹ Department of Aviation Maintenance Engineering, College of Engineering, Rangsit
		University, Pathumthani 12000, Thailand.
14:40-15:10	Plenary 11B	Experimental Investigation of the Ground Effect of WIG Craft - NEW1 Model
		Rattapol Sakornsin ¹ , Chinnapat Thipyopas ¹ , and Siripong Atipan ^{1, *}
		¹ Faculty of Engineering, Kasetsart University, Bangkok, Thailand

15:10-15:40 Plenary 12B Pointing error evaluation of the High spatial Resolution Imaging Camera of BepiColombo space mission Daniele Dipasquale ^{1,*} , Stefano Deber ^{2,3} , Gabriele Cremonese ⁴ , Fabrizio Capaccioni ⁵ , Pasquale Palumbo ⁶ ¹ Department of Aeronautical Engineering, International Academy of Aviatior Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520 Thailand 2 Centre of Studies and Activities for Space (CISAS) - "G.Colombo", University of Padua, Via Venezia 15, Padova 35131, Italy ³ Department of Industrial Engineering, University of Padua, Via Venezia 1, Padova 35131, Italy ⁴ INAF, Osservatorio Astronomico di Padova, Vicolo dell'Osservatorio 3, I-35122, Padova, Italy ⁵ INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy ⁶ Dip. Scienze Applicate, Universitá Parthenope, Centro Direzionale, Isola C4
 Daniele Dipasquale^{1,*}, Stefano Debei^{2,3}, Gabriele Cremonese⁴, Fabrizio Capaccioni⁵, Pasquale Palumbo⁶ Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520 Thailand Centre of Studies and Activities for Space (CISAS) - "G.Colombo", University of Padua, Via Venezia 15, Padova 35131, Italy Department of Industrial Engineering, University of Padua, Via Venezia 1, Padova 35131, Italy INAF, Osservatorio Astronomico di Padova, Vicolo dell'Osservatorio 3, I-35122 Padova, Italy INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy
 Pasquale Palumbo⁶ ¹ Department of Aeronautical Engineering, International Academy of Aviatior Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520 Thailand ² Centre of Studies and Activities for Space (CISAS) - "G.Colombo", University of Padua, Via Venezia 15, Padova 35131, Italy ³ Department of Industrial Engineering, University of Padua, Via Venezia 1, Padova 35131, Italy ⁴ INAF, Osservatorio Astronomico di Padova, Vicolo dell'Osservatorio 3, I-35122 Padova, Italy ⁵ INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy
 ¹ Department of Aeronautical Engineering, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok 10520 Thailand ² Centre of Studies and Activities for Space (CISAS) - "G.Colombo", University of Padua, Via Venezia 15, Padova 35131, Italy ³ Department of Industrial Engineering, University of Padua, Via Venezia 1, Padova 35131, Italy ⁴ INAF, Osservatorio Astronomico di Padova, Vicolo dell'Osservatorio 3, I-35122 Padova, Italy ⁵ INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy
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 ³ Department of Industrial Engineering, University of Padua, Via Venezia 1, Padova 35131, Italy ⁴ INAF, Osservatorio Astronomico di Padova, Vicolo dell'Osservatorio 3, I-35122 Padova, Italy ⁵ INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy
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 ⁴ INAF, Osservatorio Astronomico di Padova, Vicolo dell'Osservatorio 3, I-35122 Padova, Italy ⁵ INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy
 Padova, Italy ⁵ INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy
 ⁵ INAF, Istituto di Astrofisica e Planetologia Spaziale, Via del Fosso del Cavaliere 100, 00133 Rome, Italy
100, 00133 Rome, Italy
⁶ Dip. Scienze Applicate, Universitá Parthenope, Centro Direzionale, Isola C4
80143, Napoli, Italy
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
10:10-10:40 Plenary 13A Modelling Language for Systems Engineering in Defense Industry Yoothana Suansook ¹ , Tanongsak Taweesri ¹
Yoothana Suansook ¹ , Tanongsak Taweesri ¹
Yoothana Suansook ¹ , Tanongsak Taweesri ¹ ¹ Defence Technology Institute, Nonthaburi, Thailand
Yoothana Suansook ¹ , Tanongsak Taweesri ¹ ¹ Defence Technology Institute, Nonthaburi, Thailand 10:40-11:10 Plenary 14A Impact of Block Chain Adoption for Safe Food Supply Chain Management through
Yoothana Suansook1, Tanongsak Taweesri11 Defence Technology Institute, Nonthaburi, Thailand10:40-11:10Plenary 14AImpact of Block Chain Adoption for Safe Food Supply Chain Management through System Dynamics Approach from Management Perspectives in Thailand
Yoothana Suansook1, Tanongsak Taweesri11 Defence Technology Institute, Nonthaburi, Thailand10:40-11:10Plenary 14AImpact of Block Chain Adoption for Safe Food Supply Chain Management through System Dynamics Approach from Management Perspectives in Thailand Jedsada Tipmontian1,*, Jaime Castellano Alcover2, M. Rajmohan3
Yoothana Suansook1, Tanongsak Taweesri11 Defence Technology Institute, Nonthaburi, Thailand10:40-11:10Plenary 14AImpact of Block Chain Adoption for Safe Food Supply Chain Management throughSystem Dynamics Approach from Management Perspectives in ThailandJedsada Tipmontian1,*, Jaime Castellano Alcover2, M. Rajmohan31Department of Aviation Industry Innovation and Services, International
Yoothana Suansook1, Tanongsak Taweesri11 Defence Technology Institute, Nonthaburi, Thailand10:40-11:10Plenary 14AImpact of Block Chain Adoption for Safe Food Supply Chain Management through System Dynamics Approach from Management Perspectives in Thailand Jedsada Tipmontian1,*, Jaime Castellano Alcover2, M. Rajmohan31Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology
Yoothana Suansook ¹ , Tanongsak Taweesri ¹ 1 Defence Technology Institute, Nonthaburi, Thailand 10:40-11:10 Plenary 14A Impact of Block Chain Adoption for Safe Food Supply Chain Management through System Dynamics Approach from Management Perspectives in Thailand Jedsada Tipmontian ^{1,*} , Jaime Castellano Alcover ² , M. Rajmohan ³ 1 Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.
Yoothana Suansook ¹ , Tanongsak Taweesri ¹ 1 Defence Technology Institute, Nonthaburi, Thailand 10:40-11:10 Plenary 14A Impact of Block Chain Adoption for Safe Food Supply Chain Management through System Dynamics Approach from Management Perspectives in Thailand Jedsada Tipmontian ^{1,*} , Jaime Castellano Alcover ² , M. Rajmohan ³ 1 Department of Aviation Industry Innovation and Services, International Academy of Aviation Industry, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand. 2 University of Malaga, Malaga, Spain

		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
	1	Lunch
Session A5: /	Applied Scienc	tes Engineering
13:00-13:40	Prof. Prof.Mar	moru Ishii (Director of Space Environment Laboratory,
	Applied Elect	romagnetic Research Institute, National Institute of Information and Communications
	Technology (I	NICT)) give a speech on topic "Global Streams of Space Weather Research and
	Operation and	d the Role of Asia."
13:40-14:10	Plenary 16A	An Optimization Model for Advanced Life Support Ambulances Facility Location
		Problem
		Kamonchanok Thongsiriruengchai ¹ , Detcharat Sumrit ¹
		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
		Detcharat Sumrit ¹ , Supitcha Siriruttanaruk ^{1, *}
		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
		Laurent Mezeix ¹ , Komkrisd Wongtimnoi ^{1, *}
		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
		Kwanchanok Chumnumporn ¹ , Chawalit Jeenanunta ¹ , Somrote Komolavanij ¹ ,
		Natthawadee Saenluang ¹ , Kamonda Onsri ¹ , Koraphat Fairat ¹ and Kanchanok
		Itthidechakhachon ¹
		¹ Sirindhorn International Institute of Technology (SIIT), Thammasat University
16 January 2020		Workshop by ENAC
17 January 2	2020	Workshop by ENAC