



ISSA 2020 VIRTUAL PROGRAM

(All times are GMT +8)



ISSA 2020 VIRTUAL PROGRAM OVERVIEW

DAY 1 Monday 9 Nov 2020 (GMT +8)			
1400-1500	Opening Ceremony	Join Zoom Meeting https://us02web.zoom.us/j/3432916822?pwd=ZDR4MkNhRjZVaGZvT3pIVlNGNFRJZz09	
1500-1600	Keynote Address I	Meeting ID: 343 291 6822 Passcode: 6tA5cQ	
1600-1700	Keynote Address II		
DAY 2 Tuesday 10 Nov 2020 (GMT +8)			
0900-1000	Keynote Address III	Join Zoom Meeting https://us02web.zoom.us/j/3432916822?pwd=ZDR4MkNhRjZVaGZvT3pIVlNGNFRJZz09	
1000-1100	Keynote Address IV	Meeting ID: 343 291 6822 Passcode: 6tA5cQ	
1100-1300	Session A1	Join Zoom Meeting https://us02web.zoom.us/j/8137736433?pwd=dWM5U01jZ3VMZmR3M2YwWEVlNEpWdz09	Session B1
1400-1600	Session A2		Session B2
1600-1800	Session A3	Meeting ID: 813 773 6433 Passcode: 810146	Session B3
			Join Zoom Meeting https://us02web.zoom.us/j/86236690548?pwd=YitqMFdjQWI0STVLZGERNlp5YWWErQT09 Meeting ID: 862 3669 0548 Passcode: 374165
DAY 3 Wednesday 11 Nov 2020 (GMT +8)			
0900-1100	Session A4	Join Zoom Meeting https://us02web.zoom.us/j/8137736433?pwd=dWM5U01jZ3VMZmR3M2YwWEVlNEpWdz09	Session B4
1100-1300	Session A5		Session B5
1400-1600	Session A6	Meeting ID: 813 773 6433 Passcode: 810146	Session B6
1600-1700	Closing Ceremony	Join Zoom Meeting https://us02web.zoom.us/j/5450350171?pwd=ZldYbXlZbnR2bXNZOVNlM0pwczkzUT09 Meeting ID: 545 035 0171 Passcode: ISSA2020	

ISSA 2020 VIRTUAL PROGRAM DAY 1 (9 Nov 2020)

GMT +8		
0900-1400	-----	
1400-1500	Opening Ceremony and Speech	<p><i>Welcoming Address (Live)</i> Prof. Ir. Ts. Dr. Abd Rahim Abu Talib Chairman ISSA</p> <p>Prof. Hikmet Karakoc President SARES</p> <p>Prof. Nor Kamariah Noordin Dean of Engineering, Universiti Putra Malaysia</p> <p>Prof. Dr. Tuncay Döğeroğlu Rector of Eskisehir Technical University</p> <p><i>Officiating Speech</i> Prof. Dr. Roslan Sulaiman Vice Chancellor, Universiti Putra Malaysia</p>
1500-1600	Keynote Address I	<p><i>Indoor Air Quality (IAQ) in Aircraft and Possible Problems Related With IAQ (LIVE)</i> Prof. Hikmet Karakoc President of Sustainable Aviation Research Society (SARES)</p> <p>Session Chair: Associate Prof. Dr Azmin Shakrine Mohd Rafie and Dr. Mohd Faisal Abdul Hamid</p>
1600-1700	Keynote Address II	<p><i>Sustainable Aviation Fuel for the Future: Biokerosene Case Study Using Coconut Oil</i> Prof. Dr. Mohammad Nazri Mohammad Jaafar Universiti Teknologi Malaysia</p> <p>Session Chair: Associate Prof. Dr Azmin Shakrine Mohd Rafie and Dr. Mohd Faisal Abdul Hamid</p>
1700	Adjourn	

ISSA 2020 VIRTUAL PROGRAM DAY 2 (10 Nov 2020)

GMT +8	○○		
0900-1000	Keynote Address III	Prof. Ts. Shamsul Kamar Abu Samah National Aerospace Industry Coordinating Office (NAICO) Session Chair: Prof. Ts. Dr. Abd Rahim Abu Talib and Dr Syaril Azrad Md Ali	
1000-1100	Keynote Address IV	<i>The Legal Requirements, Challenges and Issues of Aircraft Noise Reduction</i> Ts. Ricky Liew Chee Leong SR Aviation Session Chair: Prof. Ts. Dr. Abd Rahim Abu Talib and Dr Syaril Azrad Md Ali	
1100-1300	Session Chair: Dr. Mohd Faisal Abdul Hamid https://us02web.zoom.us/j/8137736433?pwd=dWM5U01jZ3VMZmR3M2YwWEVLEpWdz09		Session Chair: Dr. Syamimi Saadon https://us02web.zoom.us/j/86236690548?pwd=YitqMFdjQWI0STVLZGErNlp5YWErQT09
	Session A1	Aerodynamic Force of Coandà Jet on a Curved Surface With Slanted Profile (ID008) Muhammad Alimin Shafie (Universiti Putra Malaysia) Numerical Analysis of Leading Edge Cylinder Aerofoil on Selig S1223 for Moving Surface Boundary Control (ID018) Azmin Shakrine Mohd Rafie (Universiti Putra Malaysia) Analysis of De Laval Rocket Engine Nozzle Using Computational Fluid Dynamics (ID037) Md Amzari Md Zhahir (Universiti Putra Malaysia) Feasibility Study for Exploiting Aerodynamic Drag in Very Low Earth Orbit With Different Flat Plate Configurations (ID043) Syafiq Raihan (Universiti Putra Malaysia) Computational Aerodynamic Analysis of UiTM's Hawkeye UAV Aircraft (ID044) Zurriati Mohd Ali (Universiti Teknologi MARA)	Session B1 Validation of Low Fidelity Propeller-wing Modeling Method at Low Reynolds Number (ID048) Baizura Bohari (National Defence University of Malaysia) The Effect of Streamwise Location of Micro Vortex Generator on Airfoil Aerodynamic Performance in Subsonic Flow (ID050) Mohd Rashdan Saad (National Defence University of Malaysia) CFD Analysis of Beta-type Stirling Engine by Using Fins as Regenerator (ID053) Thavamalar Kumaravelu (Universiti Putra Malaysia) Validation and Verification of Aerodynamics Loading of Schrenk Approximation, Prandtl Lifting-line and Computational Fluid Dynamics With Experiment on a NACA Series (ID055) Adi Azriff Basri (Universiti Putra Malaysia) Aerodynamics Performance of Selig Airfoil Thickness Using Computational Fluid Dynamics (ID046) Adi Azriff Basri (Universiti Putra Malaysia)
1300-1400	Lunch Break		

1400-1600	<p>Session Chair: Dr. Adi Azriff Basri https://us02web.zoom.us/j/8137736433?pwd=dWM5U01jZ3VMZmR3M2YwWEVLEpWdz09</p>		<p>Session Chair: Ts. Dr. Nadiir Bheekun https://us02web.zoom.us/j/86236690548?pwd=YitqMFdjQWI0STVLZGEnNlp5YWErQT09</p>	
	Session A2	<p>Numerical Analysis of Tesla Bladeless Micro-turbine Performance on the Individual Pitot Tube Inlet (ID065) Adi Azriff Basri (Universiti Putra Malaysia)</p> <p>Development of Tailored Product Life-cycle (PLC) for Small Sounding Rocket Development (ID066) Azmin Shakrine Mohd Rafie (Universiti Putra Malaysia)</p> <p>Conceptual Design of Piezoelectric Based Energy Harvesting Seats for Commercial Aircraft (ID025) Erfan Salami (University of Malaya)</p> <p>Effect of the Erosion on the Performance of a Transonic Compressor Rotor (ID024) Nizar A. Qattan (King Abdelaziz University)</p> <p>Design and Integration of Large Lithium Based Battery Packs for Electric Vehicles (ID058) Isil Yazar (Eskisehir Osmangazi University)</p>	Session B2	<p>Aeronautical Ground Lighting (AGL) Effectiveness in Kuala Lumpur International Airport (klia): A Review (ID031) Hamdan Ahmad (Universiti Tun Hussein Onn Malaysia)</p> <p>Analysis and Visualisation of Klia Departure Delay Flight Pattern (ID004) Siti Mariam Abdul Rahman (Universiti Teknologi MARA)</p> <p>Collaborative Allocation of Slot for Arrival Flights in Multi-airport Terminal Area Based on the Traffic Flow Pattern : a Case Study of Shanghai Terminal, China (ID045) Lina Ma (Nanjing University of Aeronautics and Astronautics)</p> <p>Exploratory Study on Deployability of Distress Call Bird Repellent System at Walton Aerodrome, Pakistan (a Methodological Approach) (ID039) Abdul Moez (University of Management and Technology Lahore)</p> <p>Anti-/de - Icing Fluid Quality Management as an Object to Provide Safe Aircraft Takeoff (ID032) Boris Safoklov (Moscow Aviation Institute)</p>
1600-1800	<p>Session Chair: Dr. Omar Faruqi Marzuki https://us02web.zoom.us/j/8137736433?pwd=dWM5U01jZ3VMZmR3M2YwWEVLEpWdz09</p>		<p>Session Chair: Dr. Mohammad Yazdi Harmin https://us02web.zoom.us/j/86236690548?pwd=YitqMFdjQWI0STVLZGEnNlp5YWErQT09</p>	
	Session A3	<p>Systems Engineering from Islamic Perspective (ID049) Ahmad Alsudairi (Universiti Putra Malaysia)</p> <p>Behaviour of Different Silica Aerogel With Aluminium Alloy Composite in High-temperature Application (ID002) Ibrahim Mohammed (Air Force Institute of Technology Nigeria)</p>	Session B3	<p>Analysis of the Environmental Situation in the Airport Impact Area Via the Method of Directed Sign Graph (digraph) (ID020) Inokentii Horobtsov (National Aviation University, Ukraine)</p> <p>Investigation of Carbon and Technology Management Considering Exergy Approach in Airport (ID014) M. Ziya Sogut (Piri Reis University)</p>

	<p><i>(continued on next page)</i></p> <p><i>(continued from previous page)</i></p> <p>Cabin Air Quality Enhancement System With High Pressure Water Separator (ID030) Amir Shahneh (Cranfield University)</p> <p>The Need of English Language Proficiency for Aviation Maintenance Personnel in Malaysia (ID001) Fairuz Romli (Universiti Putra Malaysia)</p> <p>Evaluation Of Quadrotor Flight And Battery Consumption During Turbulence Using Open-jet Wind Tunnel (ID072) Elya M.N. (National Defence University of Malaysia)</p>	<p><i>(continued on next page)</i></p> <p><i>(continued from previous page)</i></p> <p>Surface Roughness Optimization Investigation of Al6082 Aviation Aluminum Alloy (ID062) Ömer Secgin (Sakarya University of Applied Sciences)</p> <p>Co2 Emissions Reduction Thru Creating a More Sustainable Airline's Network Operation for Europe (ID041) Daniel Van Der Mee Mendes (Amsterdam University of Applied Sciences)</p> <p>Substituting Short-haul Flights by Rail Transport to Reduce Co2 Emission in Europe (ID027) Tim Koper (Amsterdam University of Applied Sciences)</p>
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ISSA 2020 VIRTUAL PROGRAM DAY 3 (11 Nov 2020)

GMT +8	○○○			
0900-1100	Session Chair: Dr. Rizal Effendy Mohd Nasir https://us02web.zoom.us/j/8137736433?pwd=dWM5U01jZ3VMZmR3M2YwWEVLEpWdz09		Session Chair: Dr. Md Amzari Md Zahhir https://us02web.zoom.us/j/86236690548?pwd=YitqMFdjQWI0STVLZGEnNlp5YWErQT09	
	Session A4	<p>Implementation of a Five-hole Probe for Investigating the Flow Field Behind a Permeable Hemispherical Parachute (ID052) Fakhri Etemadi (McGill University)</p> <p>The Effect of Inboard and Outboard Wing Sweep Angles to Lift-to-drag Ratio of a Compound Wing-body Using Panel Code (ID034) Rizal E. M. Nasir (Universiti Teknologi MARA)</p> <p>Multi-rotor Unmanned Aerial Vehicle (UAV) Aerodynamic Perspective of Different Propeller Blade Design: a Review (ID064) Ahmad Fariduddin Ahmad Faris (Universiti Putra Malaysia)</p> <p>Dimensional Analysis on the Aerodynamic Performance of Coanda Airfoil Design (ID069) Mohd Faisal Hamid (Universiti Putra Malaysia)</p> <p>Computational Fluid Dynamics Modelling of Hybrid Rocket Flow-fields (ID056) Muhammad Hanafi (International Islamic University of Malaysia)</p>	Session B4	<p>Performance and Exhaust Emissions Rate of Small-scale Turbojet Engine Running on Dual Biodiesel Blends and Single Biodiesel Blends Using Gasturb (ID068) Yazan Altarazi (Newcastle University)</p> <p>Numerical Analysis of Chamber Configuration for Hydrogen Peroxide Monopropellant Thruster (ID010) Muhammad Shahrul Nizam Shahrin (Universiti Teknologi Malaysia)</p> <p>Numerical Modeling of Dynamic Behavior of a Double-acting Four-cylinder Stirling Engine (ID022) Tan Yi Han (National Cheng Kung University)</p> <p>Design and Theoretical Analysis of a Vuilleumier Refrigerator (ID028) Jhen-Syuan Huang (National Cheng Kung University)</p> <p>Internal Flow Dynamics and Performance of Pulse Detonation Engine With Alternative Fuels (ID051) Mahammadsalman Warimani (International Islamic University Malaysia)</p>

1100-1300	<p>Session Chair: Dr. Ahmad Salahuddin Mohd Harithuddin https://us02web.zoom.us/j/8137736433?pwd=dWM5U01jZ3VMZmR3M2YwWEVLEpWdz09</p>		<p>Session Chair: Dr. Syamimi Saadon https://us02web.zoom.us/j/86236690548?pwd=YitqMFdjQWI0STVLZGEnNlp5YWErQT09</p>	
	<p>Session A5</p>	<p>Control and Simulation of Obstacle Avoidance for a Quadcopter (ID026) Mastura Ab Wahid (Universiti Teknologi Malaysia)</p> <p>Black-box Identification and Attitude Control of a Battery Powered, Unmanned, Finless Airship (ID035) Fazri Sedan (Universiti Putra Malaysia)</p> <p>Flight Dynamic Stability Performance of the Baseline-ix Blended-wing-body Unmanned Aerial System Using Flight Simulator (ID036) Shahrean Zainurin (Universiti Teknologi MARA)</p> <p>Dynamic Behaviour Comparison of Quadcopter Based on Thrust Differential and Tilted Rotor (ID047) Mohd Razip Abdullah (Standard and Industrial Research Institute of Malaysia)</p> <p>Fighter Aircraft Closed Loop Handling Quality Simulation on Lateral-directional Modes (ID054) Hindawan Hariowibowo (Institut Teknologi Bandung)</p>	<p>Session B5</p>	<p>A Study of 3D-Printed Box Structure (ID038) Atikah Basyirah Abdul Mutaali (Universiti Teknologi MARA)</p> <p>Comparative Studies on the Effect of Amine/hardener (r) Ratio on the Mechanical and Thermal Properties of Epoxy Resin (ID057) Dayang Laila Majid (Universiti Putra Malaysia)</p> <p>Damage Assessment on Numerical Modelling of Rotating Engine Blades Subjected to Bird Strike (ID059) Nur Azam Abdullah (International Islamic University of Malaysia)</p> <p>Computational Study of Mass Reduction of a Conceptual Microsatellite Structural Subassembly Utilizing Metal Perforations (ID067) Mohammad Yazdi Harmin (Universiti Putra Malaysia)</p> <p>Natural Fibre Sandwich Composites and their Aerospace Engineering Applications (ID071) Norkhairunnisa Mazlan (Universiti Putra Malaysia)</p>
1300-1400	Lunch Break			
1400-1600	<p>Session Chair: Dr. Muhammad Hanafi Azami https://us02web.zoom.us/j/8137736433?pwd=dWM5U01jZ3VMZmR3M2YwWEVLEpWdz09</p>		<p>Session Chair: Dr. Ezanee Gires https://us02web.zoom.us/j/86236690548?pwd=YitqMFdjQWI0STVLZGEnNlp5YWErQT09</p>	
	<p>Session A6</p>	<p>Designing of Battery Management System for Lithium Based Battery Packs Using at Electric Aircraft (ID017) Burak Tarhan (Eskisehir Technical University)</p> <p>Failure Modes and Effects Analysis of T-56 Turboprop Engine Turbine (ID023) Nizar A. Qattan (King Abdelaziz University)</p>	<p>Session B6</p>	<p>Method for Increasing Stability and Controllability When Moving on the Ground of an Unmanned Aerial Vehicle of an Aerodynamic Scheme of a Flying Wing (ID042) Boris Safoklov (Moscow Aviation Institute)</p> <p>Airdrop of Discharged Batteries Using an Unmanned Aerial Vehicle as a Method of Increasing the Range of an Electric Aircraft by Reducing the Mass in Flight (ID033) Boris Safoklov (Moscow Aviation Institute)</p>

		<p><i>(continued on next page)</i></p> <p><i>(continued from previous page)</i></p> <p>Reliability Analysis of C-130 Turboprop Engine Turbine (ID005) Nizar A. Qattan (King Abdelaziz University)</p> <p>Investigation of Thermodynamics Performance of Jet Engine in Flight Elevation (ID060) Mehmet Ziya (Piri Reis University)</p> <p>Investigation of Entropy Optimization Related to Thrust Control for Jet Engine in Atmospheric Elevation (ID061) Mehmet Ziya (Piri Reis University)</p>		<p><i>(continued on next page)</i></p> <p><i>(continued from previous page)</i></p> <p>Multiobjective Optimisation of Civil Tiltrotor Powerplants Incorporating Reheat (ID070) Ezanee Gires (Universiti Putra Malaysia)</p> <p>Mission Analysis of 90 Pax Hybrid Aircraft for Sustainable Aviation (ID040) Devendra Singh (CSIR-NAL Bengaluru India)</p> <p>Conceptual Design and Mission Analysis of Hybrid-electric Short-haul Amphibian Aircraft for Sustainable Aviation (ID063) Rajkumar S. Pant (Indian Institute of Technology Bombay)</p>
1600-1700	Closing Ceremony	<p><i>Closing Speech</i></p> <p>Prof. Ts. Dr. Abd Rahim Abu Talib Chairman ISSA</p> <p>Prof. Hikmet Karakoc President SARES</p> <p><i>SARES Award Presentation</i></p> <p><i>ISSA2020 Best Paper Awards Presentation</i></p>		

ISSA 2020 SESSION CHAIRS

Session A1

Dr. Mohd Faisal Abdul Hamid

Zoom Room Admin - Rafizan

Session A2

Dr. Adi Azriff Basri

Zoom Room Admin - Rafizan

Session A3

Dr. Omar Faruqi Marzuki

Zoom Room Admin - Azmin

Session A4

Dr. Rizal Effendy Mohd Nasir

Zoom Room Admin - Syaril

Session A5

Dr. Ahmad Salahuddin Mohd Harithuddin

Zoom Room Admin - Rafizan

Session A6

Dr. Muhammad Hanafi Azami

Zoom Room Admin - Ridzwan

Session B1

Dr. Syamimi Saadon

Zoom Room Admin - Ezanee

Session B2

Ts. Dr. Nadiir Bheekun

Zoom Room Admin - Rahim

Session B3

Assoc. Prof. Dr. Mohammad Yazdi Harmin

Zoom Room Admin - Faisal

Session B4

Dr. Md Amzari Md Zhahir

Zoom Room Admin - Salah

Session B5

Assoc. Prof. Ts. Dr. Norkhairunnisa Mazlan

Zoom Room Admin - Syamimi

Session B6

Dr. Ezanee Gires

Zoom Room Admin - Syaril

ISSA 2020 PAPER ID AND SESSION

Paper ID	Presenter	Session
ID001	Fairuz Romli	A3
ID002	Ibrahim Mohammed	A3
ID004	Siti Mariam Binti Abdul Rahman	B2
ID005	Nizar A. Qattan	A6
ID008	Muhammad Alimin Shafie	A1
ID010	M.S.N. Shahrin	B4
ID014	M. Ziya Sogut	B3
ID017	Burak Tarhan	A6
ID018	Azmin Shakrine	A1
ID020	Inokentii Horobtsov	B3
ID022	Tan Yi Han	B4
ID023	N. A. Qattan	A6
ID024	N.A. Qattan	A2
ID025	E. Salami	A2
ID026	M. Ab Wahid	A5
ID027	T. Koper	B3
ID028	J.-S. Huang	B4
ID030	Amir Shahneh	A3

ID031	Hamdan Ahmad	B2
ID032	Boris Safoklov	B2
ID033	Boris Safoklov	B6
ID034	Rizal E. M. Nasir	A4
ID035	Fazri Sedan	A5
ID036	Shahrean Zainurin	A5
ID037	Md Amzari Md Zhahir	A1
ID038	A.B. Abdul Mutaali	B5
ID039	Abdul Moeez	B2
ID040	Devendra Singh	B6
ID041	D. van der Mee Mendes	B3
ID042	Boris Safoklov	B6
ID043	Syafiq Raihan	A1
ID044	Zurriati Mohd Ali	A1
ID045	Lina Ma	B2
ID046	Sarveshwaran Balakrishnan	B1
ID047	Mohd Razip Abdullah	A5
ID048	Baizura Bohari	B1
ID049	Ahmad Alsudairi	A3
ID050	Mohd Rashdan Saad	B1
ID051	Mahammadsalman Warimani	B4

ID052	Fakhri Etemadi	A4
ID053	Syamimi Saadon	B1
ID054	Hindawan Hariowibowo	A5
ID055	Adi Azriff Basri	B1
ID056	Muhammad Hanafi	A4
ID057	Dayang Laila Majid	B5
ID058	Isil Yazar	A2
ID059	Nur Azam Abdullah	B5
ID060	Mehmet Ziya	A6
ID061	Mehmet Ziya	A6
ID062	Ömer Secgin	B3
ID063	Rajkumar S. Pant	B6
ID064	A.F. Ahmad Faris	A4
ID065	Adi Azriff	A2
ID066	Azmin Shakrine	A2
ID067	Mohammad Yazdi Harmin	B5
ID068	Yazan Altarazi	B4
ID069	Mohd Faisal Hamid	A4
ID070	Ezanee Gires	B6
ID071	Norkhairunnisa Mazlan	B5
ID072	Elya M.N.	A3

ISSA 2020 SUSTAINABLE AVIATION TOPICS

Aerodynamics

Session A1, Session B1, Session A4

Aerospace Systems and Engineering Design

Session A2, Session A3, Session B6

Airport and Operations

Session B2, Session B3

Guidance, Control and Dynamics

Session A3, Session A5, Session B6

Propulsion and Power

Session B4, Session A6

Structures and Materials

Session A3, Session B3, Session B5