

ESTÜ Hali - 15 December 2021 - 16:00-16:30 (GMT+3) - Virtual Cocktail & Zoom Rehearsal Zoom Link: https://zoom.us/i/977631505797pwd=WXBuaXhDa£1Hal9Fa2p5Zvt5NTR5dz09

ESTÜ Hall - 16 December 2021 - 19:00-10:30 (cMH+3) - Virtual Cocktal & Zoom Renearsal

Zoom Link: https://zoom.six//97763150579?pwd=WkWa.k/ho£1Hal9Fa.psZyx/SNTR5dz09

Zoom ID:977 6315 0579 & Passcode:749194

ESTÜ Hall - 16 December 2021 - Zoom ID:977 6315 0579 & Passcode:749

(GMT+3) Eskişehir Time

10:00 - 10:30

10:30 - 12:00

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	Zoom Link: https://zoom.us/j/97763150579?pwd=WXBuaXhDaE1Hai9Fa2pSZyt5NTR5dz09
	Tuncay Döğeroğlu, Honorary Chair of ISEAS'21, Rector - Eskişehir Technical University, Türkiye
ion	Ravi Rajamani, Chair of ISEAS'21
	T. Hikmet Karakoç, Founding Chair of SARES Symposiums
	Session Chair: Peter Dannenmann
ynote iker	On Large-Scale Production and Storage of Renewable Energy to Enable the Transition to Sustainable Aviation
	Max Platzer - University of California Davis, USA
	Where Does the Electricity Comes From
	Piral Valles - OSTIM Technical University Türkiye

(GMT+3)		ESTÜ Hall - 17 December 2021 - Zoom ID:977 6315 0579 & Passcode:749194
Eskişehir Time		Zoom Link: https://zoom.us/j/97763150579?pwd=WXBuaXhDaE1Hai9Fa2pSZyt5NTR5dz09
	3rd Keynote Speaker Session	Session Chair: Oleksandr Zaporozhets
		Light-weight Cellular Materials for Next Generation Electric Aircraft
		Raj Das - RMIT University, Melbourne, Australia
10:00 - 11:30		Automated Checking of an Autonomous Aerospace System's Sensor Instrumentation for Failure Detection, Identification, and Recovery
		Peter Dannenmann - RheinMain University of Applied Sciences, Germany
		Solar-Electric Long Endurance Reflector Craft for Meteorology and Climate Simulation
		Narayanan M. Komerath - Taksha Institute, USA
	2nd Invited Speaker Session	Session Chair: Berkant Göksel
		Stability Analysis of More Electric Aircraft Power Systems
		Kongpan Areerak - Suranaree University of Technology, Thailand
11:30 - 12:30		Improving the Efficiency of Unmanned Aerial Systems Through Wing Morphing: A Case Study for the Hydra Technologies S4 Éhecatl UAS
		Oliviu Şugar-Gabor - University of Salford, England
		Fuel Burn and Aircraft Trajectory Optimization
		Alejandro Murrieta-Mendoza - Amsterdam University of Applied Science, Netherlands

		Fuel Burn and Aircraft Trajectory Optimization
		Alejandro Murrieta-Mendoza - Amsterdam University of Applied Science, Netherlands
12:30-13:00		Break
Parallel Halls		ESTÜ Hall - Zoom Link: https://zoom.us/j/97763150579?pwd=WXBuaXhDaE1Hai9Fa2pSZyt5NTR5dz09
		Session Chair: Oliviu Şugar-Gabor
		Aircraft Noise Measurements in Ukrainian Airports
		O. Zaporozhets, V. Gulevets, S. Karpenko, K. Kazhan, O. Konovalova, V. Paraschanov
		Acoustic Operational Monitoring of Unmanned Aerial Vehicles' Near Vertiports
13:00 - 14:00	2nd Technical Session	Vitalii Mykolayovich Makarenko, Vadim Ivanovich Tokarev
	0000000	Vibration Attenuation of Two-wheeled Self-balancing Robot using Control Moment Gyroscope (CMG)
		Faruk Ünker
		Small Scale Subsonic Wind Tunnel Design and Prototype Production for Current Monitoring and Data Collection
		Mesut Pehlivan, Murat Zübeyir Aybastı, Alperen Doğru
		Session Chair: Artur Zaporozhets
		The Effects of Total Initial Concentration in a Vanadium Redox Flow Battery
		İlker Kayalı
		Observed Engine Performance Using Real Flight Data on Varying Ambient Temperature for 787-8 Aircraft
14:00 - 15:00	3rd Technical Session	Tapdig Imanov, Melih Yildiz
		Influence of battery aging on energy management strategy
		Ludovica Spada Chiodo, Teresa Donateo, Antonio Ficarella
		The Effects of Automation Level on the Operators (Pilot, Air Traffic Controller)' Role and Total Loads
		Abeer Jazzar, Omar Alharasees, Utku Kale
15:00-15:15		Short Break
		Session Chair: Teodor Lucian Grigorie
		Peculiarities of pre-processing of ADS-B data for aircraft noise modeling and measurement during specific stages of LTO cycle
		Katherina Kazhan, O.Zaporozhets, S.Karpenko
		Misunderstandings in Aviation Communication
15:15 - 16:30	4th Technical Session	Omar Alharasees, Abeer Jazzar and Utku Kale
		Flight Testing and Simulation of High Altitude Reflector Components

Narayanan M. Komerath, Ravi Deepak, Adarsh Deepak

Uğur Moralı

(GMT+3)

Eskişehir Time

Effect of Phase Change Material on Thermal Behavior of a Lithium-ion Battery

1 h	4th Kevnote	Session Chair: Peter Dannenmann
1		Fault Detection, Isolation and Accommodation for the UAV Flight Control System
10:30 - 11:30	Speaker	Cengiz Hacızade - Istanbul Technical University, Türkiye
1	Session	The Road to the Electrification of Aircraft Powertrains
1		John Olsen - The University of New South Wales, Australia
		Session Chair: Narayanan M. Komerath
!		Synthesis of Knowledge in the Field of Management of Avionics Systems Used for Specific Air Transport Objects
1		Pavol Kurdel - Technical University of Kosice, Slovakia
1	3rd Invited	An Improving Method for Fault Detection in Aircraft
11:30 - 12:50	Speaker	Nguyen Dinh Dung - Le Quy Don Technical University, Vietnam
	Session	Solar-powered UAV for Environmental Monitoring Applications
		Vis Sripawadkul - Kasetsart University, Thailand
		Hydrogen Fuel Cell Powered Flying Wing Drones and Air Taxis
		Berkant Göksel, IB Göksel Electrofluidsystems, Germany
12:50-13:00		Short Break
		Session Chair: Işıl Yazar
·		An Evaluation of the Usage of Solar Photovoltaic Panels in Aviation
·		Koray Oncel, Fatih Serttaş
		Polarization Effect Between Entropy and Sustainability of Cruise Altitude of Jetprop Engine Performance
13:00 - 14:00	5th Technical Session	Mehmet Ziya Söğüt
		Conceptual Application of Hybrid-Electric Propulsion System Configurations on Cessna 172S
		Burak Akgül
		Latest Developments on Electrical Air Vehicles Powered by Electric and Hybrid Propulsion Systems
		Ozgur Balli, Alper Dalkiran, Tahir Hikmet Karakoc
		Session Chair: Vis Sripawadkul
	6th Technical Session	Design of Aircraft Wings and Wind Turbine Blades
		Eusébio Z.E. Conceição, Mª Ines L Conceição, Mª Manuela R. Lúcio, João M. M. Gomes, Hazim B. Awbi
		Modeling of exhaust gases jet from aircraft engine for different operational conditions
14:00 - 15:00		Kateryna Synylo
		Possibilities of using fuel cells in transport aircraft
		Marian Hocko, Samer Al-Rabeei, Utku Kale
		Application of PMV in the Evaluation of the Aircraft Passenger Cabin Thermal Environment
		Eusébio Z.E. Conceição, Mª Ines L Conceição, Mª Manuela J. R. Lúcio, João M. M. Gomes, Hazim B. Awbi
15:00 - 15:45		Closing Remarks

ESTÜ Hall - 18 December 2021 - Zoom ID:977 6315 0579 & Passcode:749194

Zoom Link: https://zoom.us/j/97763150579?pwd=WXBuaXhDaE1Hai9Fa2pSZyt5NTR5dz09

https://zoom.us/j/93340292967

ISEAS'21 (International Symposium on Electric Aircraft and Autonomus Systems) Program (Eskişehir Time GMT +3)		
	ESTÜ Hall - 15 December 2021 - 16:00-16:30 (GMT+3) - Virtual Cocktall & Zoom Rehearsal Zoom Link: https://zoom.us/i/977631505797pwd=WXBuaXhDaE1Hal9Fa2pSZytSNTRSdz09 Zoom ID:977 6315 0579 & Passcode:749194	
(GMT+3)	SARES Hall - 16 December 2021	
Eskişehir Time	Zoom Link: https://zoom.us/j/93340292967	

		Session Chair: Utku Kale
		A Review on the Use of Unmanned Aerial Vehicles in the Structural Inspection of Greenhouses
		Emre Özbek, Elif Koruyucu, Selçuk Ekici, T. Hikmet Karakoç
	7th Technical Session	Aircraft Accidents and their causes
13:00 - 14:00		Samer Al-Rabeei, Simona Pjurová, Utku Kale
		Examination of Different Systems Used for UAV Detection and Tracking
		Alpasian Durmuş
		PIV Experimental Setup Integrated Wind Tunnel Initial Design: Size and Power Requirement Calculation
		Murat Ayar, T. Hikmet Karakoç
		Session Chair: Mehmet Ziya Söğüt
	8th Technical	Sustainable Aviation of a Leather Industy: Life Cycle Assessment of Raw Materials, Energy Consumption and Discharge of Pollutants and Recovery some Economical Merit Substances
		Delia Teresa Sponza, Nefise Erdinçmer
		Subjective Decision-Making of Aviation Operators (Pilots, ATCOs)
14:00 - 15:00	Session	Utku Kale, Omar Alharasees , Jozsef Rohács and Dániel Rohács
		Particle Image Velocimetry Measurement With Scaled-Down Aircraft Models: A Review Of The Experiments And Applications
		Murat Ayar, Ali Haydar Ercan, T. Hikmet Karakoç
		Resampling based particle filter estimation of a quadrotor
		Aziz Kaba, Ahmet Ermeydan
15:00-15:15		Short Break
	9th Technical Session	Session Chair: Alper Dalkıran
		Evaluation of HVAC System Performance in an Aircraft Passenger Cabin
		Eusébio Z.E. Conceição, Mª Ines L Conceição, Mª Manuela R. Lúcio, João M. M. Gomes, Hazim B. Awbi
		An Examination of the Usage Areas of Big Data Technology in Civil Aviation
15:15 - 16:30		Betul Kaçar, Emre Nalçacıgil
		Imaging Techniques based on Unmanned Aerial Vehicle
		Alpaslan Durmuş, Abdulhamit Sevgi, Cebrail Ölmez
		A Study on Emission Comparison Considering Aircraft Size
		Dilara Kılıç, Selçuk Ekici, T. Hikmet Karakoç

SARES Hall - Zoom Link: Join Zoom Meeting https://zoom.us/j/93340292967

3AKL3 hall - 20011 Link. John 20011 Meeting https://20011.us/j/33340232307		
	10th Technical Session	Session Chair: Sergii Boichenko
		Modern Tendencies in Improvement of Technologies of Utilization of the Fulfilled Tires
		Anna Yakovlieva, Sergii Boichenko, Iryna Shkilniuk, Igor Kubersky
		Determination of Environmental Impact Assessment Criteria in the Life Cycle of Transport Facilities
13:00 - 14:00		Khrutba V., Rutkovska I., Lukyanova V., Barabash O., Kharitonova N.
		Features of Formation of Aerodrome Territories in the Context of Decarbonization
		Iryna Novakovska, Liliia Skrypnyk
		Production of Urea Lubricating Oils Based on Plant Oils
		Oleg Safronov, Larysa Bodachivska, Iryna Venger, Oleksii Papeikin
	11th Technical Session	Session Chair: Anna Yakovlieva
		Increase of Engine Characteristics by Using of Alcohol Converting
		Sviatoslav Kryshtopa, Liudmyla Kryshtopa, Myroslav Panchuk, Volodymyr Korohodskyi, Igor Prunko, Ivan Mykytii
		On the Peculiarities of Alkaline-catalyzed Route of Synthesis of Fatty Acid Monoalkyl Esters
14:00 - 15:00		Serhii Konovalov, Stepan Zubenko, Lyubov Patrylak, Anjela Yakovenko, Volodymyr Povazhnyi, Kateryna Burlachenko
		Improvement of the Process of Wet Conversion of Natural Gas for the Purpose of Optimization of Production of Carbon-free Fuels for Diesel Engine
		Solovyov G., Klimash A., Galstyan A.
		Use of Polyfunctional Additives as a Part of Motor Fuels and Lubricants.
		Grigorov A.B., Trotsenko A.V.
15.00 15.45		Classing Remarks (Places as to ECTÜ Hall for Clasing Remarks)