ISUDEF 2021 (International Symposium on Unmanned Systems and the Defense Industry) Program

(Washington DC GMT-4)

25 October 2021 - 16:00-16:30 (GMT-4) - Virtual Cocktail & Zoom Rehearsal Zoom ID:977 6315 0579 & Passcode:749194 Zoom Link: https://zoom.us/j/97763150579?pwd=WXBuaXhDaE1Hai9Fa2pSZyt5NTR5dz09

(GMT-4)	26 October 2021 - Zoom ID:977 6315 0579 & Passcode:749194 Zoom Link: https://zoom.us/j/97763150579?pwd=WXBuaXhDaE1Hai9Fa2pSZyt5NTR5dz09		
Washington DC Time			
09:00 - 10:00	Opening Session	Tuncay Döğeroğlu, Honorary Chair of ISUDEF'21, Rector - Eskişehir Technical University, Turkey John Anderson, Dean of the College of Engineering and Architecture, Howard University, USA Nadir Yılmaz, Chair of ISUDEF'21, Prof. and Department Chair of Mechanical Eng., Howard University, USA Siripong Atipan, Chair of ISSA'21 Ravi Rajamani, Chair of ISEAS'21 T. Hikmet Karakoç, Founding Chair of SARES Symposiums	
	1st Keynote Session	Session Chair: Nadir Yılmaz	
		Predicting Evolution: Airplanes and Helicopters Adrian Bejan, Duke University, USA	
10:00 - 11:30		Numerical Analysis of Propeller-Wing Interaction in a UAV with Distributed Electric Propulsion	
		Ramesh Agarwal, Washington University in St. Louis, USA	
		A More Powerful Approach to Engineering Safer Systems	
		Nancy Leveson, Massachusetts Institute of Technology, USA	
11:30-11:45		Short Break	
		Session Chair: T. Hikmet Karakoc	
11:45 - 13:15	2nd Keynote Session	Development and Applications of Unmanned Aircraft System Industry in Malaysia Abd Rahim Abu Talib, Universiti Putra Malaysia, Malaysia	
		Securing Unmanned Aerial Vehicular Networks	
		Danda Rawat, Howard University, USA	
		Methods for Retrieving Information About Remote Objects From Received Signals	
		Felix J. Yanovsky, National Aviation University, Ukraine	
13:15 - 13:45		Network Break	
	1st Technical Session - UAV-1	Session Chair: Işıl Yazar	
		The Artificial Immune System Paradigm for Generalized Unmanned Aerial System Monitoring and Control	
		Ryan Gerald Mclaughlin	
		Transonic Airfoil Development for an Unmanned Air System	
13:45 - 14:45		Kasım Biber	
		Detection of Unmanned Air Vehicles Using Multi-Camera Architectures	
		Ana Veiga, S. Warwick, P. Oliveira and A. Suleman	
		Concept Design and Analysis for A Fixed-Wing Unmanned Aerial Vehicle to Perform Surveillance and Mapping Missions	
		Osman Kumuk, Mustafa Ilbas	
	2nd Technical Session - Kalman Filter Application- Space - Flight Performance and Aerodynamics - 1	Session Chair: Kasım Biber	
14:45-15:45		Fault Tolerant Estimation of Relative Motion of Satellites in Cluster	
		GNSS Aided Satellite Localization by Using Various Kalman Filters	
		Mert Sever, Chingiz Hajiyev	
		Flow Patterns in Double Planar Synthetic Jets	
		Eva Muñoz Salamanca, Soledad Le Clainche Martínez	
		Higher-Order Dynamic Mode Decomposition to Model Reacting Flows	
		Adrián Corrochano, Giuseppe D'alessio, Alessandro Parente, Soledad Le Clainche	

(GMT-4)	27 October 2021 - Zoom ID:977 6315 0579 & Passcode:749194		
Washington DC	Zoom Link: https://zoom.us/j/97763150579?pwd=WXBuaXhDaE1Hai9Fa2pSZyt5NTR5dz09		
Time		Session Chair: Alper Dalkıran	
09:00-09:45		Leveraging Unmanned Systems to Solve the Next 50 Years' Challenges	
	1st Invited Speaker	Keely Griffith, Association for Unmanned Vehicle Systems International (AUVSI), USA	
	Session	Resilient Exploration in Underground Spaces	
		Sebastian Scherer, Carnegie Mellon University, USA	
		Session Chair: A. Haydar Ercan	
09:45-11:00	Workshop	Workshop on Pico/Micro/Nano-Satellite Engineering (Life Cycle of PNMSat Mission & Live Demo of Classroom Satellite Kit)	
		Sharan Asundi, Old Dominion University, USA	
11:00 - 11:15		Short Break	
		Session Chair: Felix J. Yanovsky	
		The Future of Unmanned Aerial Vehicles: Autonomy, Morphing & Biomimicry	
	2nd Invited	Ranjan Vepa, Queen Mary University of London, UK	
11:15 - 12:15	Speaker Session	Deep Learning and Data-driven Reduced Order Models Based on Physical Principles	
		Soledad Le Clainche Martinez, Universidad Politécnica de Madrid, Spain	
		Tomographic Emission Spectroscopy for the Characterization of Solid Propellant Plumes	
12:15 - 12:30		Yudaya Sivathanu, En'Urga Inc., USA Short Break	
12.15 12.50		Session Chair: Jelena Svorcan	
		Aerospace Programs on a Budget	
		Michael Hatfield, University of Alaska, USA	
12:30 - 13:30	3rd Invited	UAS Enabled Weather Prediction System Prototype Development	
	Speaker Session	Dávid Sziroczák, Budapest University of Technology and Economics, Hungary	
		Fiber Optic Multi-parameter Sensing for 3D Printed Pressure Vessel	
		Hyung D. Bae, Howard University, USA	
13:30 - 14:00		Short Break	
		Session Chair: Afzal Suleman	
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	3rd Technical Session	Thermal Study of Cylindrical Lithium-Ion Battery At Different Discharge Rates Ugur Moralı Modeling and Simulation of Vertical Landing Dynamics of an Aircraft Based on A Model System Selim Sivrioglu	
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(GMT-4)	28 October 2021 - Zoom ID:977 6315 0579 & Passcode:749194		
Washington DC Time	Zoom Link: https://zoom.us/j/97763150579?pwd=WXBuaXhDaE1Hai9Fa2pSZyt5NTR5dz09		
Time		Session Chair: Yudaya Sivathanu	
09:00-10:00	Special Session	Lighter, Faster, Stronger, Cheaper: How Generative Design is Transforming Design & Manufacturing	
		Gaby Waldman-Fried , Autodesk Inc., USA	
	5th Technical Session - UAV-3	Session Chair: Utku Kale	
10:00 - 11:00		Nonlinear Control of Multi-Quadrotor Flight Formations	
		Diogo Santos Ferreira, Afzal Suleman, Paulo Oliveira	
		Dynamic Modeling of Main Landing Gear of A High Altitude Long Endurance UAV	
		Ali Dinc, Yousef Gharbia	
		Aerodynamic Shape Optimization of the Morphing Leading Edge for the UAS-S45 Winglet	
		Musavir Bashir, Simon Longtin-Martel and Ruxandra Mihaela Botez, Tony Wong	
		Applications of Drones in the Field of Health and Future Perspectives	
		Kursat Alp Yigit, Alper Dalkiran, T. Hikmet Karakoc	
11:00 - 11:15		Short Break	
	Chin Tarahari as l	Session Chair: Dávid Sziroczák	
		Examination of Supercapacitors in Terms of Sustainability in Aviation	
		Cansu Gorgulu, Isil Yazar, Hikmet Tahir Karakoc	
		Wind Energy Conversion for Stratospheric Balloon in Real Environment	
11:15-12:15	Sustainability-	Oznur Kayhan	
	Energy-Simulation Studies - 2	The Effect of Control Cylinder Placed at Different Angles in Front of A Heated Cylinder on Heat Transfer	
		Dogan Burak Saydam, Coskun Ozalp, Ertac Hurdogan	
		Optimization of Energy Efficiency According to Freud's Disk Theory Depending on Propell Pitch Angles	
		Ukbe Ucar, Zehra Ural Bayrak, Burak Tanyeri	
		Session Chair: Hyung D. Bae	
	7th Technical Session Aircraft Technologies - Design - Materials	Electrical System Design for Very Light Aircraft	
		Merve Aluc	
		Stem Opportunities in Flight Testing Sunlight Reflector Ultralights	
12:15 - 13:15		Narayanan M. Komerath, Ravi Deepak, Adarsh Deepak	
	Structures	Marketing of Innovative Transportation Options: Urban Air Mobility	
	Composites	Volkan Yavas, Rustem Baris Yesilay	
		Synthesis and Application of Composite Materials for 3D Printing Based on Polymers Filled With Carbon Nanostructures	
13:15-13:45		Oleksandr D. Zolotarenko, Elena Pavlovna Rudakova, Nazym Yerlanovna Akhanova, Anatolii D. Zolotarenko et al. Short Break	
13.13-13.43		Session Chair: Chingiz Hajiyev	
	8th Technical Session - UAV-4	Mobile Hydrogen Power Station for Unmanned Aerial Vehicles	
		Anatolii Dmitrovich Zolotarenko, Oleksandr D. Zolotarenko, Nazym Yerlanovna Akhanova et al.	
		Coordinated Path Following for Multi-Agent Fixed-Wing Aircraft	
13:45 - 14:45		Hugo Sequeira Costa, Stephen Warwick, Paulo Oliveira, Afzal Suleman	
		Onboard Trajectory Coordination of Multiple Unmanned Air Vehicles	
		James Sease, Stephen Warwick, Afzal Suleman	
		In-Flight Nonlinear System Identification for UAS Adaptive Control	
		Sean Bazzocchi, Afzal Suleman	
		Session Chair: Ali Dinc	
	Filter Application- Space - Flight Performance and Aerodynamics - 2	Comparison of KalmanFilter Typer in Orientation of UGV With Using İntertial Navigation System	
		Semih Ozden, Orhun Dos, Haluk Gozde	
		A Test-Bed for Attitude Determination and Control System of Nanosatellite	
14:45 - 15:45		Aykut Kutlu, Demet Cilden-Guler, Chingiz Hajiyev	
		Satellite Formation Flight Via Thrusters and PID Control Aproaches	
		Tuncay Yunus Erkec, Chingiz Hajiyev	
		Adaptive Kalman Filter Based Sensor Fault Detection, Isolation and Accommodation for B-747 Aircraft	
		Akan Güven, Chingiz Haciyev	
15:45 - 16:00	Closing Remarks		