Symposium Program

Stockholm Time (GMT+2)		Sweden Hall - 07 June 2023 https://kth-se.zoom.us/j/64817437048
Symposium Moderator:		**Ali Haydar Ercan**, Symposium Moderator
10:45 - 11:00	**Opening Session**	**Ricardo Vinuesa,** ISUDEF'23 Symposium Chair, KTH Royal Institute of Technology, Sweden **Adil Gasımov**, ISUDEF'24 Symposium Chair, National Aviation Academy, Azerbaijan
11:00 - 11:30	**Introductory Keynote Session**	**Max Platzer**, Lifetime Honorary President of SARES **T. Hikmet Karakoç**, Founding Chair of SARES Symposiums
11:30 - 13:00	**Keynote Speaker Session I**	Session Chair: **Hikmet Karakoç** *Direct numerical simulation of a thermal turbulent boundary layer: an analogy to simulate bushfires and a testing bed for artificial intelligence remote sensing of bushfire propagation.* **Julio Soria**, Monash University, Melbourne, Australia *Student UAV projects at KTH* **Raffaello Mariani**, KTH Royal Institute of Technoogy, Sweden *Unmanned Aerial Vehicles Cooperation for the monitoring of Greenhouse Gases* **Glauco Caurin**, University of São Paulo, Brasil
13:00-14:00 Lunch Break		
14:00 - 15:15	**Industrial Special Session I**	Session Chair: **Ricardo Vinuesa** *Hydrogen powered UAVs* **Hüseyin Devrim**, TEKSIS İleri Teknolojiler, Türkiye *Air Mobility Initiative U-Space (AMIUS) - Together for secure UAM operations in U-space* **Mona Moren**, Airbus Urban Mobility (AUM), Germany *Design Considerations for Tethered Unmanned Air Systems* **Ahmet Nezir Ertürk**, Otonom Teknoloji, Türkiye
15:15 - 15:45	**1st Technical Session**	Session Chair: **Gerardo Zampino** *Propulsion and Fuel Systems Design of a Target UAV with High Subsonic Speed.* **Ali Avanlıer**, Serhat Yılmaz *Parametric Approach to Initial Weight Determination at Preliminary Design of a Quadrotor Cargo UAV.* **Fikret Kamil Corbaci**, Yunus Emre Dogan

DAY ONE

Stockholm Time (GMT+2)		Sweden Hall - 08 June 2023 https://kth-se.zoom.us/j/64817437048
10:30 - 11:30	**Keynote Speaker Session II**	Session Chair: **Ali Haydar Ercan** *Marine Autonomy: Research and Applications* **Sanjay Sharma**, University of Plymouth, England, UK *UAV noise: integrating biodiversity assessment into sustainable aviation* **Mike Wood**, University of Salford, UK
11:30 - 12:45	**Industrial Special Session II**	Session Chair: **Raffaello Mariani** *Modern GIS Trends* **Barış Uz**, ESRI Türkiye, Türkiye *Preliminary design of a solar-powered UAV* **Alessandro Borgia**, Team Icarus PoliTO, Italy *GNSS Architectures for high dynamics navigation* **Miguel Ángel Gómez López**, National Institute of Aerospace Technology (INTA), Spain
12:45-13:00 Break		
13:00 - 13:30	**2nd Technical Session**	Session Chair: **Soledad Le Clainche Martínez** *Comparative Analysis of AI-Supported Drone Operations: Evaluating Critical Aspects among Pilot Groups* **Omar Alharasees**, Utku Kale *Mathematical Modeling of Staging Analysis for Launch Vehicles and Design of Collision Prevention Algorithm* **Bahadır Erdenk**
13:30 - 15:00	**Keynote Speaker Session III**	Session Chair: **Raffaello Mariani** *Reduced order models and machine learning in aerospace engineering* **Soledad Le Clainche Martínez**, Universidad Politécnica de Madrid (UPM), School of Aeronautics, Spain *Nontraditional Attitude Filtering with Uncertain Process Noise* **Chingiz Hajiyev**, Istanbul Technical University, Türkiye *The working bees to combat climate change* **Olga Lucia Quintero Montoya**, Universidad EAFIT, Colombia

DAY TWO

	Stockholm Time (GMT+2)		Sweden Hall - 09 June 2023 https://kth-se.zoom.us/j/64817437048	
T H R E E	10:00 - 12:00	**Keynote Speaker Session IV**	Session Chair: **Gerardo Zampino**	**T H R E E**
			Urban flow predictions: understanding uncertainties to widen their application	
			Clara García-Sánchez, Delft University of Technology, The Netherlands	
			Exergetic Attribute of Fuel Cells in Hydrogen Aviation Including UAVs	
			Birol Kılkış, OSTIM Technical University, Türkiye	
			Exploring the Future of Unmanned Aircraft Applications and Flight Safety	
			Rikard Tyllström, Lund university School of Aviation, Sweden	
D A Y	12:00 - 13:15	**Industrial Special Session III**	Session Chair: **Birol Kılkış**	**D A Y**
			Fast-time Large-scale Simulations for Airspace Capacity Assessment	
			Milan Rollo, AgentFly Technologies, Czechia	
			Revolutionizing Logistics for a Sustainable Future: Aerit's Journey to Create Global Drone Delivery Networks	
			Alexander Perrien, Aerit, Sweden	
			The Sustainable Urban Mobility Indicators (SUMI) Framework	
			Anna Palaiologk, Future Needs Management Consulting Ltd., Greece	
	13:15 - 13:45 Closing Remarks			