

# 18<sup>th</sup> IBCAST 2021: Aerostructures

12-15 January 2021

Technical Program

Updated on:  
January 05, 2021

	1000 – 1130			1150 – 1300			1400 – 1600				
<b>Day-1</b> January 12, 2021 Tuesday	<b>Invited Talk</b> Aerostructures-I		TEA BREAK	Aerostructures-II	Aerostructures-II	LUNCH & PRAYER BREAK	<b>Invited Talk</b> Aerostructures-III				
	Dr. Inam Ullah Memko, Melbourne, Australia AS-18			AS-79	AS-95		Yasir Zahoor Delft Uni, Netherlands AS-117    AS-39				
<b>Day-2</b> January 13, 2021 Wednesday	<b>Invited Talk</b> Aerostructures-I			Aerostructures-II	Aerostructures-II		<b>Invited Talk</b> Aerostructures-III				
	Dr. Sohail Malik GIKI, Pakistan AS-141			AS-196	AS-284		Dr. Wolfgang Luber Wgl-Dynamics, Germany AS-298    AS-131				
<b>Day-3</b> January 14, 2021 Thursday	<b>Invited Talk</b> Aerostructures-I			Aerostructures-II	Aerostructures-II		<b>Invited Talk</b> Aerostructures-III				
	Dr. Ali Nasir UET, Taxila, Pakistan AS-378			AS-407	AS-507		Dr. Mozio Gola Politecnico di Torino, Italy AS-532    AS-540				
<b>Day-4</b> January 15, 2021 Friday	1000 – 1130										
	<b>Invited Talk</b>			Aerostructures-I							
	Dr. Waqas Anwar CESAT, Pakistan			AS-547			AS-611				

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Day 1: January 12, 2021

<p><b>10:00 – 11:00</b> <b>Keynote Speaker</b> <b>Dr. Inam Ullah</b> Memko, Melbourne, Australia</p>	<p><b>Digital Advantage in Product Engineering</b></p>
<p><b>11:00 – 11:30</b> <b>M. Aneeb Siddiqui</b> CAE, NUST, Pakistan</p>	<p><b>AS-18: Design and Analysis of Flapping Wing Apparatus</b></p>
<p><b>11:30 – 11:50</b></p>	<p><b>T E A B R E A K</b></p>
<p><b>11:50 – 12:25</b> <b>M. Muaaz Tariq</b> CAE, NUST, Pakistan</p>	<p><b>AS-79: Design, Analysis and Fabrication of RC Operated Flapping Wing Micro Aerial Vehicle Mimicking Natural Flyers</b></p>
<p><b>12:25 – 13:00</b> <b>Ussama Hamid</b> Air University, Pakistan</p>	<p><b>AS-95: Mechanical Components Design for a Hybrid Assisted Regenerative Turbofan Engine (HARTFE) Configuration for Future Aircraft propulsion</b></p>
<p><b>13:00 – 14:00</b></p>	<p><b>L U N C H B R E A K</b></p>
<p><b>14:00 – 15:00</b> <b>Keynote Speaker</b> <b>Yasir Zahoor</b> Delft University, Netherlands</p>	<p><b>Morphing Technology-Design and Application in Aviation Industry</b></p>
<p><b>15:00 – 15:30</b> <b>M. Sohaib Khan</b> CAE, NUST, Pakistan</p>	<p><b>AS-117: A Critical Analysis of Small but Heavy-Lift Multirotor and Their Flight Controllers</b></p>
<p><b>15:30 – 16:00</b> <b>Yasir Mehmood</b> PIEAS, Pakistan</p>	<p><b>AS-39: Experimental and Computational Study of Simply Supported Thin Elastic Circular Plate under Forced Vibrations</b></p>

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Day 2: January 13, 2021

<b>10:00 – 11:00</b> <b>Keynote Speaker</b> <b>Dr. Sohail Malik</b> GIKI, Pakistan	<b>Trends in Non Contact Structural Health Monitoring (SHM) of CFRP Composite Laminates</b>
<b>11:00 – 11:30</b> <b>S.Anees Khan</b> NUST, Pakistan	<b>AS-141: Determination and Comparison of Modal Parameters of a High Lifting Low Pressure Turbine Blade under Ni-Based Superalloys using Computational Modal Analysis</b>
<b>11:30 – 11:50</b>	<b>T E A B R E A K</b>
<b>11:50 – 12:25</b> <b>Ahsan Ayaz</b> IST, Pakistan	<b>AS-196: Multi-Objective Design Optimization of Multicopter using Genetic Algorithm</b>
<b>12:25 – 13:00</b> <b>Bilawal Ramzan</b> GIKI, Pakistan	<b>AS-284: Railroads Surface Crack detection using Active Thermography</b>
<b>13:00 – 14:00</b>	<b>L U N C H B R E A K</b>
<b>14:00 – 15:00</b> <b>Keynote Speaker</b> <b>Dr. Wolfgang Luber</b> Wgl-Dynamics, Germany	<b>The Interaction of Advanced Flight Control System and Elastic Aircraft Structure</b>
<b>15:00 – 15:30</b> <b>G. Hassan Askari</b> COMSATS, Wah, Pakistan	<b>AS-298: Energy absorption and compression behaviour of polymeric 3D printed lattice structures - experimental and numerical study</b>
<b>15:30 – 16:00</b> <b>Taimur Shams</b> NUST, Pakistan	<b>AS-131: Identification of Geometrical Parameters Dependency on Aerodynamic and Stability Characteristics of Flying Wing Micro Air Vehicle</b>

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Day 3: January 14, 2021

<p><b>10:00 – 11:00</b> <b>Keynote Speaker</b> <b>Dr. Ali Nasir</b> UET, Taxila, Pakistan</p>	<p><b>Numerical and Experimental Evaluation of the Mechanical Behavior of Kevlar/Glass Fiber Reinforced Epoxy Hybrid Composites</b></p>
<p><b>11:00 – 11:30</b> <b>Sara Khushbash</b> NUST, Pakistan</p>	<p><b>AS-378: Computational analysis of low mass moment of inertia flying wing</b></p>
<p><b>11:30 – 11:50</b></p>	<p><b>T E A B R E A K</b></p>
<p><b>11:50 – 12:25</b> <b>M. Raza</b> CAE, NUST, Pakistan</p>	<p><b>AS-407: Comparative Study of Different Techniques for Development of Optimal Load Spectrum</b></p>
<p><b>12:25 – 13:00</b> <b>Usama Tariq</b> CAE, NUST, Pakistan</p>	<p><b>AS-507: Static Structural Analysis of Fighter Aircraft's Wing Spars</b></p>
<p><b>13:00 – 14:00</b></p>	<p><b>L U N C H B R E A K</b></p>
<p><b>14:00 – 15:00</b> <b>Keynote Speaker</b> <b>Mozio Gola</b> Politecnico di Torino, Italy</p>	<p><b>An Updated 2020 Overview of Turbine Blade under Platform Damping Research at AERMEC-POLITO</b></p>
<p><b>15:00 – 15:30</b> <b>S. Qaim Sohail</b> CAE, NUST, Pakistan</p>	<p><b>AS-532: Design and Transition of a Quad Rotor Tail-sitter VTOL UAV with Experimental Verification</b></p>
<p><b>15:30 – 16:00</b> <b>Obaid Ullah Aamer</b> National University of Computer and Emerging Sciences, Islamabad, Pakistan</p>	<p><b>AS-540: Green Self-Powered Air Water Harvester</b></p>

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Day 4: January 15, 2021

<p><b>10:00 – 10:50</b> <b>Keynote Speaker</b> <b>Dr. Waqas Anwar</b> CESAT, Pakistan</p>	<p><b>Going into the Details of Fatigue and Damage Tolerance Analysis of Composite Structures</b></p>
<p><b>10:50 – 11:10</b> <b>M. Sohaib Khan</b> CAE, NUST, Pakistan</p>	<p><b>AS-547: Drone Selection Using Multi-Criteria Decision-Making Methods</b></p>
<p><b>11:10 – 11:30</b> <b>M. Ahmed Hassan</b> IST, Pakistan</p>	<p><b>AS-611: Effect of Vibrations on Human Body Spine</b></p>