



AOSEC 2023

Asia Oceania Systems Engineering Conference

Theme: Digitalization for engineering Complex Systems

11th - 14th October, 2023 | HAL Management Academy Auditorium, Bengaluru



Main Conference Day 2 - Friday, 13 October 2023

Time	Session			
9 AM - 9:15 AM	Day 2 Welcome			
9:15 AM - 9:50 AM	Keynote Address: Dr. Reena Sharma, Chairperson SSE panel AR&DB, DRDO			
9:50 AM - 11 AM	Panel Discussion: Advancing Engineering Excellence: Skills for Navigating the Digital Frontier			
11 AM - 11:30 AM	High Tea & Networking			
11:30 AM - 12:45 PM	Pragati	Main Hall	Prerana	Pratibha
	Defence & Space	Aerospace	General	Digital Engineering
	Overcome Certification Challenges of AI/ML Based Airborne Systems Using FAA Overarching Properties <i>Prameela Paramasivam, Shashi Kumar P, Vasantha Selvi Paulraj and Rooparani Chandrashekar</i>	FPGA Implementation of Adaptive PID Control for Quadcopter Position Tracking <i>Harish Bhat N, Shreesha Chokkadi and Satish Shenoy B.</i>	Systematic Model of Leadership Approaches <i>Srimannarayana Myla, Karel Marshall, Bcm Mabuza Bcm Mabuza, Aleksandra Scalco and Jack Sutherland</i>	Digital Thread as a foundation for Digital Engineering and Manufacturing of Complex Cyber-physical systems <i>Siddharth Miglani</i>
AI enabled Digital Transformation space Test system	Modernizing Engineering Data Documentation in Air Cargo System	Dynamic Reliability Analysis using Model Based Systems Engineering	HyperCube: From Operational Analysis to System Requirements	



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	<i>Prabhat Kumar, Deepak Kumar and Goutham Sridharan</i>	<i>Mallikarjun Awarad, Venkata Sindhi Tadigotla and Suresh Krishnan</i>	<i>Vaisakh Haridasan Nair, Karishma Khathija, Mansi Shah, Subramanian Tenkasi Ramesh, Deepali Purohit and Akanksha Tiwari</i>	<i>Muntazir Merchant, Mudit Mittal</i>
	NISAR S-SAR Digital Beamforming Architecture and Implementation <i>Rakesh Kumar, Suneela Mishra, Anish Kumar Mishra and Diksha Sharma</i>	Model-Based System Engineering in highly Configurable and Customizable Avionics Systems <i>Hariprasad Murugesan, Arutchelvan Karunanidhi, Rathan Natarajan, Arunkumar Janarthanan and Deepakkumar Ganesamurthy</i>		A case study on optimizing New Product Development through Customer Centric Systems approach <i>Rathish Arumugam, Jayaarun Prasanth, Shruti Raje, Mudit Mittal and Stueti Gupta</i>
12:45 PM - 1:45 PM	Lunch			
1:45 PM - 3 PM	Pragati	Main Hall	Prerana	Pratibha
	Defence & Space Neural Network-based Method to Compute Recommended Cruise Level and Optimal Climb Location <i>Dinesh Kumar Kushwaha, Mark Volner, Ryan Young and Sebin K Kottackal</i>	Aerospace Development of Safety-Critical Flight Software Using the Model-Based Co-Simulation Approach <i>Anand G, Manju Nanda and Ezhil Venthan</i>	General Systems Thinking through Ansoff's Matrix <i>Swapnil Bhosale</i>	Digital Engineering Performance Analysis of Electro-Hydraulic Actuation System using Multi-Domain Physics-Based Modeling <i>Hari Krishna Pavan Kumar Kollipara, Venkata Kaushik Belusonti, Venkateswaran Krishnasamy, Aeja Kadri and Suk-Min Moon</i>



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	<p>Systems Engineering - An Enabler for Atmanirbhar Bharat in the Defence Sector</p> <p><i>Virendra Vikram Vishen</i></p>	<p>SASER in Practice: Early Insights from Two Case Studies Connected to Industry</p> <p><i>Jan A. Lenssen, Usama Ahmed, Kostas Nizamis, Marcus V. Pereira Pessoa and G. Maarten Bonnema</i></p>	<p>Towards an Enterprise Architecture Methodology for Development of Product Service Systems in Construction Domain</p> <p><i>Jagadish Suryadevara and Johan Bergelin</i></p>	<p>Modeling and Simulation of electro-mechanical systems for aerospace applications</p> <p><i>Ashok Kumar Thirunarayana and Adishesha Sivaramasastry</i></p>
	<p>Revisiting large scale defence acquisition: uncertainty and acquisition responsiveness</p> <p><i>Mahmoud Efatmaneshnik, Peter De Haan and Ady James</i></p>	<p>Reduced Order Modeling of a Heat Exchanger with a Multi-layered Stacking Ensemble to reduce Computational Inefficiencies</p> <p><i>Roopa Adepu and Vinayak V. Chandran</i></p>	<p>System Engineering approach on life cycle dynamics of Off-Highway Applications</p> <p><i>Sourabha Gokhale and Mohan Vadnere</i></p>	
3 PM - 3:30 PM	High Tea & Networking			
3:30 PM - 5 PM	<i>Panel Discussion: Bringing Digitalisation in Engineering organisations with MBSE</i>			
5 PM - 5:30 PM	<i>Closing Talk (Summary, Quiz)</i>			