



INDIAN SOCIETY OF SYSTEMS FOR SCIENCE AND ENGINEERING

Thiruvananthapuram Chapter



NATIONAL CONFERENCE ON FRONTIERS OF AEROSPACE SYSTEMS AND TECHNOLOGIES (FAST-2022)

Date : 7th & 8th July, 2022

Venue : VSSC, Thiruvananthapuram

IN ASSOCIATION WITH



Vikram Sarabhai Space Centre
Thiruvananthapuram



Liquid Propulsion Systems Centre
Thiruvananthapuram



Indian Institute of Space Science and Technology
Thiruvananthapuram



ISRO Interlink Systems Unit
Thiruvananthapuram

Space has always been an attraction to mankind and technological advancements have helped in this quest for the unknown. India also joined the league of space faring nations with the first sounding rocket launch from the shores of Thumba, Thiruvananthapuram on November 21, 1963. India's space activities got a thrust with the formation of Indian Space Research Organisation in 1969. The vision and roadmap for these activities were laid out by Dr. Vikram Sarabhai, the father of Indian Space Programme. From its humble beginnings, this programme under the aegis of the Indian Space Research Organisation, climbed up steadily achieving greater heights and making marks in the world scenario. ISRO now has to its credit launch vehicles like PSLV, GSLV, GSLV MKIII and numerous satellites for remote sensing, communications etc, aiding the life of common man. All these achievements also speak volumes on achieving self-sufficiency at par with the technological advancements.

With these achievements, the need for sharing knowledge also originated and this helped to form the Indian Society of Systems for Science and Engineering (ISSE). ISSE is a professional body encouraging systems approach in the field of science and technology. It also aims at technological integration at National level through systems engineering approach.

In these changing times, when the space arena has been opened up for private players and start-ups, a conference on "Frontiers of Aerospace Systems and Technologies" becomes the need of the hour. The conference solicits active participation from Government labs, R & D organizations, start-ups, private firms, industries and academia. It is expected that this conference will help in exchange of ideas between major stakeholders of Indian Space Programme.

The conference, organized by ISSE, Thiruvananthapuram chapter in association with VSSC, LPSC, IISU and IIST aims to encourage communication among the participants working in the areas of space related activities, through contributed paper presentations, interactive poster sessions, keynotes/invited talks/tutorials, panel discussions and exhibition of components, hardware and systems.

Prospective authors are encouraged to submit original work in the form of extended abstracts in any of the following areas.

The key topics include -

1. Advanced space missions
2. Futuristic technologies in launch vehicles and spacecraft
 - Aerodynamics
 - Aerospace mechanisms
 - Aerospace structures
 - Avionics
 - Control and Guidance
 - Inertial Navigation systems
 - Launch vehicle integration and checkout systems
 - Manufacturing technologies
 - Propulsion systems
 - Quality and reliability
 - Reusable launch vehicles
 - Simulation of launch vehicle systems
 - Space robotics
 - Space debris mitigation
 - Satellite data processing and applications
3. Strategies for Atma Nirbhar Bharat
 - Self-reliance in electronics and strategic materials
 - Production of launch vehicles and satellites through Indian industry
 - Promoting Start-up ventures in space sector
 - Strategies for reducing satellite launch cost
4. Technologies for Human space flight mission
5. Infrastructure requirements
 - Infrastructure and ground facilities for launching satellites
 - Infrastructure for testing of launch vehicle and satellite systems

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IMPORTANT DATES

Extended abstract submission :	20 th May, 2022	Last date for registration :	15 th June, 2022
Abstract acceptance :	31 st May, 2022	Date of conference :	7 th & 8 th July, 2022
Full paper :	15 th June, 2022		

Registration Details

Participation in FAST-2022 requires a valid registration. All participants shall register for the conference. For registration, duly filled registration form shall be forwarded to isefast2022@gmail.com on or before 15th June 2022. Please visit the website www.isseindia.co.in for details on registration form, format of extended abstract and full paper and procedure for uploading them.

Conference Fee

	Delegates	Students
Registration Fee	₹ 7000/-	₹ 2000/-

Sponsorship

Associated industries and institutions are requested to support FAST-2022 by sponsoring the conference events.

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Tariff	₹ 75,000/-
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All payments shall be made online through RTGS/NEFT/IMPS to 'Indian Society of Systems for Science and Engineering' (ISSE), Thiruvananthapuram Chapter.

Account No. 34976894245

IFSC : SBIN0002279

State Bank of India, Thumba Branch, Thiruvananthapuram-695022

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