



## **ISSE NATIONAL CONFERENCE-4**

# **STUDENTS' SPECIAL SYMPOSIUM (S<sup>3</sup>)**

**INVITES PAPERS FROM STUDENTS CURRENTLY PURSUING UNDERGRADUATE IN ENGINEERING OR  
MASTERS IN SCIENCE / ALLIED DISCIPLINES ON THE FOLLOWING THEMES**

### **THEMES**

**Sustainable Energy Systems**  
**Artificial Intelligence & Robotics for Citizen Centric Smart Systems**  
**Human Transportation Systems of the Future**  
**Space Debris Management**

### **VENUE**

**SAC/ISRO, AHMEDABAD**

### **DATE**

**SEPTEMBER 27, 2019**

**Last date for full paper submission: September 6, 2019**

**For more details visit <https://www.inac2019.in>**

**Organized by ISSE Ahmedabad Chapter | [www.isseindia.co.in](http://www.isseindia.co.in)**  
**Hosted by SAC/ISRO, Ahmedabad | [www.sac.isro.gov.in](http://www.sac.isro.gov.in)**

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## REGISTRATION FEE AND ACCOMMODATION

- There is no registration fee for participation in the Symposium.
- Only the shortlisted papers post evaluation shall be invited for final paper presentation and accommodation shall be provided to outstation participants on shared basis.
- Travel reimbursement (up to 3 Tier AC) will be provided to outstation participants.

## IMPORTANT DATES

Last date for submission of full paper: **September 6, 2019**  
Acceptance of paper: **September 14, 2019**  
Date of Symposium: **September 27, 2019**

## VENUE

Space Applications Centre (SAC) is located at the heart of Ahmedabad city. Ahmedabad is well connected by road, rail and air. Nearest railway station (Kalupur) is approximately 10 km and Sardar Vallabhbhai Patel International Airport is approximately 15 km from SAC.

Space Applications Centre  
Jodhpur Tekra, Ambawadi Vistar P.O.  
Ahmedabad – 380015



## ORGANIZING COMMITTEE

- Dr. K S Dasgupta, DA-IICT Gandhinagar-Chairman  
Shri N M Desai, SAC Ahmedabad-Alt.Chairman  
Shri D K Singh, SAC Ahmedabad  
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Shri Sidharth Singh, SAC Ahmedabad

For any queries regarding participation in the Students' Special Symposium (S<sup>3</sup>) please mail at:

[scube@inac2019.in](mailto:scube@inac2019.in)

or contact:

Ms. Priya R, 079-26913321  
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## INDIAN SOCIETY OF SYSTEMS FOR SCIENCE & ENGINEERING (ISSE)

The Indian Society of Systems for Science & Engineering (ISSE), with its headquarters at Thiruvananthapuram is a professional body for interdisciplinary collaboration of Systems, Science and Engineering. ISSE comprises of twelve chapters across the country with its Ahmedabad Chapter having recently been inaugurated on March 20, 2019.  
Website: [www.isseindia.co.in](http://www.isseindia.co.in)

## ISSE NATIONAL CONFERENCE (INAC)

ISSE National Conference is organised to provide a unique opportunity to participants from diverse backgrounds of Academia, R&D organizations, Industry etc. for promoting the systems concept and hence providing a platform for conceptual deliberations on developing systems more effectively. INAC-4 is the fourth National Conference being organised by ISSE Ahmedabad Chapter and hosted by Space Applications Centre (SAC), Ahmedabad, ISRO, during September 26-27, 2019. It will comprise of a National Level Technical Conference and a Students' Special Symposium (S<sup>3</sup>) which will focus on themes pertaining to challenges, advancements and innovation in contemporary and future Systems.  
Website: [www.inac2019.in](http://www.inac2019.in)

## STUDENTS' SPECIAL SYMPOSIUM

Students' Special Symposium (S<sup>3</sup>) provides opportunity to students pursuing Undergraduate in Engineering or Masters in Science/ Allied disciplines to showcase their novel and innovative thoughts in Systems Science and Engineering including Techno-managerial aspects that are judged by Eminent Experts from diverse fields. It is held periodically under the aegis of ISSE National Conference (INAC).

## TARGET PARTICIPANTS

Students pursuing Undergraduate in Engineering or Masters in Science/ Allied disciplines at Educational Institutes in the states of Gujarat, Rajasthan, Maharashtra and Madhya Pradesh are eligible to apply.

## THEMES

### 1. Sustainable Energy Systems

Sustainable Energy refers to an overall closed loop system marked by cleaner and efficient energy generation, energy conservation and enhanced use of renewable energy in place of non-renewable ones. Thus it covers the entire energy supply chain comprising production, transmission and consumption aimed at meeting needs of the present without depleting the ability of future generations to meet their energy needs.

### 2. Artificial Intelligence & Robotics for Citizen Centric Smart Systems

Artificial Intelligence and Robotics are transforming the way citizen centric systems work. From digital governance, surveillance, smart cities, national security to hazard mitigation, resource optimization etc., they today cover almost everything that connects human to technology and have even replaced human in many fields. These systems enable delivery of services at never before efficiency and effectiveness levels.

### 3. Human Transportation Systems of the Future

Technology has spiraled at an unprecedented pace and has given new dimensions to how human travel on ground, in air or in outer space. Speed, cost, safety and eco-friendliness are critical to these systems, which may range from electric vehicles to high speed train travel to manned space flights using reusable vehicles.

### 4. Space Debris Management

The once clean outer Space has now thousands of objects orbiting the Earth and many of them have become waste due to end of useful life. This waste termed as "Space debris" is gradually accumulating and posing danger to future manned and unmanned Space missions, Space Stations and possible blockage of orbital slots for satellites. The regular waste management practices employed on Earth cannot be used there and hence innovative Space debris management systems have to be devised.

## GUIDELINES FOR PARTICIPATION

- Students can participate in a team of maximum 4 members mentored by a Faculty.
- Only one paper submission is allowed per team.
- Submissions should be forwarded by Head of Department/ Institute along-with the duly signed Bonafide/No Objection Certificate (format is available on [www.inac2019.in](http://www.inac2019.in))

## FULL PAPER SUBMISSION

Students must submit full papers (around 4-5 pages in length including diagrams and references) as per the format available at [www.inac2019.in](http://www.inac2019.in)

Papers in PDF and MS Word format should be forwarded by the Head of Department/Institute along-with duly signed scanned copy of the Bonafide/ No Objection Certificate to [scube@inac2019.in](mailto:scube@inac2019.in).

Only submissions complete in the above respects shall be included for participation.

## CRITERIA FOR SELECTION

The paper shall be evaluated and judged by experts based on their relevance to the themes, novelty / innovation, challenges addressed, clarity of language and presentation, rigour and the societal impact of the idea being presented.

Shortlisted papers shall be called for oral/poster presentation during the Symposium.

## PRIZES

The three best oral paper presentations and one best poster presentation shall be awarded and participation certificates shall be given to students of all the shortlisted teams.

