

*Setting the Standard for Automation™*



**International Society of Automation**  
*Bangalore Section*

Standards  
Certification  
Education & Training  
Publishing  
Conferences & Exhibits

# | 2021 | | 2022 | ANNUAL REPORT |

**ISA - Bangalore**

## ANNUAL SECTION REPORT JUNE 2021 TO JUNE 2022

### Executive Summary

The Executive Committee (EC) team lead by Mr. C S Prakash, President, completed a very successful and eventful year notwithstanding the pandemic situation prevailing. It was marked by TechTalks, Professional Educational, Trainings leading to Certification, On-line meetings, Brainstorming sessions and Collaborations with other organizations. The *"ISA/IEC 62443 Cybersecurity Certification Training Course"* organized with support from ISA Europe, that influenced several members of the sections to acquire certifications stood out. It is also highly fulfilling and laudable that the section membership strengthened further. Membership number and growth of ISA Bangalore Section is perhaps highest in Asia & Pacific region, or even at the global level, warranting appreciation by ISA global leadership.

Professional Membership of the Section is currently 240 members (as on May 2022), that includes five Sr. Life Members, one life member, 191 Senior Members, and 43 members. Our section also boasts of more than 360 active student members from 11 active student sections.

EC Meetings were held every month; We had conducted about 12 EC meetings out of these 10 meetings were conducted virtually and 2 meetings has been done on in person. The virtual meeting was resorted to, due to the COVID-19 pandemic and yet was fairly effective and result oriented.

Nine tech talks were organised with two of them conducted in person and six were webinar based. Incidentally, the webinars had excellent participation. The Tech-talks were also well attended and appreciated by our members, Student Section Members / Faculties and other invited Automation Professionals in the region. More importantly, several TechTalks were delivered by ISA-B member-experts in events organised for ISA student sections, under the oversight of ISA Bangalore Section.

We had arranged for training of professionals on VILT and OnDemand Mode for IEC62443. More than 62 professionals were trained.

ISA Bangalore and CLF (Carbon Leader Forum) has signed an MOU to work in the area of decarbonisation, electrification, emissions reduction, process efficiency. This partnership will also be supported by ISA building automation division.

We wish all members and families to take care and stay safe !

## **ANNUAL SECTION REPORT JULY 2021 TO JUNE 2022**

The Annual General Body Meeting was conducted on 26<sup>th</sup> June 2021 virtually starting from 15.00 Hrs to 17:00 Hrs. Mr. C S Prakash took over as the President for the year 2021-2022.

### **Following Executive Committee Members were elected:**

President & Society Delegate	Mr. C S Prakash, ABB
President Elect & Program Chair	Mr.Srinath K, Mac India
Secretary	Mr.Prasanna Inamdar, Senseops
Treasurer	Mr.Badrinath Belgaumkar, iCore Automation
Immediate Past President	Mr. Uma Shankar, Desmet Ballestra
Chairman of the Trust	Mr. Ram Kerur, Sunlux Technovations Pvt Ltd

### **Following Members were nominated to various committees:**

Sr No	Role Responsibility	Name	Membership Id
1	President	CS Prakash	000033242329
2	Past President	UmaShankar AB	000033147198
3	President Elect	Srinath K	000032943742
4	Treasurer	Badrinath B	000032987844
5	Secretary / Webmaster	Prasanna Inamdar	000033244356
6	Trust Chairman	Ram Kerur	000033069656
7	Delegate / Education Chair	Venkatapathy SR	000032191305
8	Membership Chair	Ravi Balakrishnan	000033640637
9	Membership Chair	Ramesh Bonthalla	000033702548
10	Program Chair	TR Ravishankar	000032166185
11	Program Chair	Sunil S Shah	000033281338
12	Program Chair	Yogesh Alawani	000033620588
13	Program Chair	Albin Manjaly	000033703934
14	Honors & Award	Shankar Balakrishnan	000033134791
15	Honors & Award	Girish Ayya	000032960133
16	Education Chair	Krishna P	000032156487
17	Education Chair	Jayesh Barve	000033271171
18	Education Chair	SriHari Raghavan	000032214903
19	Education Chair	Veena Hedge	000033173515
20	Publications & Newsletter	Kumuda S	000033659369
21	Student Section Liason	DAP Prabhakar	000033714684
22	Student Section Liason	Santosh Desai	000033628429
23	Student Section Liason	Missy Dash	000033243119
24	Webmaster	Gokul Deshpande	000033696150
25	Marketing chair	Rajshekhar Uchil	000020314517
26	Marketing chair	Hemanth Kumar M	000033743938

27	Marketing chair	Hemanth Singh	000033633975
28	Standards & Practices	Sukumarn Mathoor	000032190216
29	Standards & Practices	Renuka Prasad GS	000033246611
30	Standards & Practices	AK Bhaduri	000033250281
31	Section Division Liason	Vinay Avanshi	000032969324
32	Special Assignments	Renukaprasad Belgur	000004083861
33	Special Assignments	Asim Sinha	000034010601
34	Special Assignments	Sharad Karve	000032258165
35	Special Assignments	Jasir	000033230169

**Note :** Sr No 33. Asim Sinha discontinued from EC from Mar 2022.. Since he moved Maharashtra section.

### **List of Activities for the Year June 2021 to June 2022**

#### **The List of EC Meetings (In-person and Online)**

The Executive Committee met 12 times to plan and execute the vision of ISA Bangalore.

1. 10 <sup>th</sup> July 2021	7. 8 <sup>th</sup> Jan 2022
2. 14 <sup>th</sup> Aug 2021	8. 12 <sup>th</sup> Feb 2022
3. 18 <sup>th</sup> Sept 2021	9. 12 <sup>th</sup> Mar 2022
4. 9 <sup>th</sup> Oct 2021	10. 16 <sup>th</sup> Apr 2022
5. 13 <sup>th</sup> Nov 2021	11. 14 <sup>th</sup> May 2022
6. 11 <sup>th</sup> Dec 2021	12. 12 <sup>th</sup> Jun 2022

#### **The List of Techtalks (In-person and Online)**

1. 23 <sup>rd</sup> Jul 2021	6. 5 <sup>th</sup> Feb 2022
2. 28 <sup>th</sup> Aug 2021	7. 17 <sup>th</sup> Mar 2022
3. 23 <sup>rd</sup> Oct 2021	8. 7 <sup>th</sup> May 2022
4. 6 <sup>th</sup> Dec 2021	9. 14 <sup>th</sup> May 2022
5. 18 <sup>th</sup> Dec 2021	10. 12 <sup>th</sup> June 2022

## **Engagements & Reports: ISA HQ & ISA District D14**

The Annual report was filed online at the ISA HQ website. ISA Bangalore had completed all the formalities and requirements and is one of the few sections to meet the compliance requirements prescribed by the ISA HQ. A few ISAB members also contributed as Leadership team of ISA D14 and contributed to help better coordination & cooperation between D14 and all D14-sections under the dynamic leadership & support from D14 DVP Ms. Sujata Tilak.

### **Program Tech Talk Report**

**TR Ravi Shankar**, Program Chair and Dr. Sunil S Shah, Yogesh Alawani & Albin Manjaly

Program Chair team took over in July 2021 after the new EC took over activities to serve this 21-year-old ISA Bangalore Section & its goals were set to primarily continue the good work done in previous years as well as create new avenues for expanding ISA Bangalore's reach & activities.

As most ISA Bangalore members are aware, we are a vibrant community of ISA members drawn from various industries with immense technological prowess. Active member participation has ensured that the section has achieved an enviable position amongst ISA District 14 sections and has been ranked as one of the most active sections multiple times. The section has also been awarded best section globally in 2020.

To its credit ISA Bangalore has added over 200 members as well as a dozen student sections. Now, in order to extend the activities, hitherto unexplored area of bringing education in the form of training, providing thought leadership to organizations which are complementary to ISA goals. This support is primarily targeted towards Industry professionals. The program chair has also come up with a framework to establish a sustainable collaboration with other organizations. This framework is in the form of guidelines and is approved by the current EC Members.

#### **Framework primarily focusses on the following:**

Any Collaboration need to bring value to ISA Bangalore members. The potential partner organization would also expect to understand the expertise of participating ISA Bangalore members.

The areas of technology or expertise of ISA members could be from the various industry divisions of ISA, such as Oil & Gas, Chemical, Building Automation, etc., as well as technologies in areas such as Instrumentation; DCS & PLC, Fieldbus; Thyristor Drives; Industry 4.0 implementation in these areas; Cyber Security; Safety Technologies; IT technology relevant to these areas (Cloud, IT Hardware, Software, Networking technologies)

Such a collaboration will enable ISA Bangalore to provide a platform for its members to deliver expert solution and consultancy. Expertise may drawn from the group in interested ISA Bangalore members. A managing team may be formed to co-ordinate the collaboration and linking the interested members to the project and also evolve a viable and feasible commercial model.

In this regard we have been approached in the recent past by following organizations:

National Power Training Institute : [https://npti.gov.in/npti\\_psti\\_bangalore/](https://npti.gov.in/npti_psti_bangalore/)

As reflected in their website, this is a premier institute that focusses on training Power Engineers of the country in all aspects of Power Generation, transmission & Distribution. Recently there have been Cybersecurity attacks on Our Power Industry & the government has tasked NPTI to design suitable training courses on cybersecurity. ISA Bangalore has been approached by them & EC is considering ways to work with them, including offering available ISA Cybersecurity Trainings. In addition NPTI is

also looking at creating a cyber security course. This will provide an opportunity for ISA Bangalore to create a core team to provide expertise develop and deliver a customized training course.

Carbon Leadership Forum: <https://carbonleadershipforum.org/>

As reflected in their website, they provide thought leadership & advise local governments, building sector consultants, organizations to build innovative products to meet carbon emission norms as set in COP26 Summit recently & was set in Paris Accord in the past.

As many might be aware, there have been many environmental disasters in last couple of years such as Tsunami, tornadoes, floods. These have been attributed to global warming and the consequent extreme weather.

Various governments have pledged to cut down carbon emissions, primarily emanating from use of energy.

The recently conducted COP 26 Summit announced 2050 to 2070 as net zero target year for carbon emissions. Based on this, countries such as UK have begun work & fixed targets for energy consumption per square meter. The challenge is to create suitable technologies for

A) Measurement & Verification

B) Building Digital twin for Building Sector

ISA Bangalore has been approached by CLF Bangalore to support the development and implementation of these technologies.

MOU is signed on 14-5-2022 . As part of this event a tech talk has been organised on Net zero carbon neutrality.

**Signing the MOU** : Mr Prakash President ISA Bangalore Section & Dr Kanwal on behalf of CLF.





(L to R) Dr.Sunil Shah, Dr. Jayesh Barve, TR Ravishankar, CS Prakash, Dr.Kanwal, Abhinav Sujit, Rajshekhar Uchil

Apart from this, the program chair has organized following sponsored tech talks & introduced newly non sponsored tech talks by ISA Bangalore members.

#### Sponsored Tech talks

- 1) Wireless Technologies in level measurement By United Electric (attended by over 90 participants)
- 2) Cyber security monitoring in OT technologies by Awen Colelctive (attended by over 50 participants)
- 3) Analytics in Power Measurement by Tativ4 Technologies(Attended by over 50 participants.
- 4) OPC protocol in Motion Control Applications by Uttunga Technologies(Attended by Over 50 participants)

#### Non - Sponsored Tech talks

- 5) Industry 4.0 application in Battery Manufacturing by Sunlux Technovation (attended by over 40 participants)
- 6) Familiarization of ISA Standards & A Glimpse of Functional safety (scheduled for 18Dec 2021).
- 7) Decade of action : Decarbonizing the building sector in digital way by Dr. Kanwal Kamra.
- 8) Digital Transformation, collaboration with Image processing in Smart Manufacturing by Mr Ramdas
- 9) Net zero carbon by 2050 & Net zero goals a new partnership by Dr. Jayesh Barve and Dr.Kanwal Kamra.

## **Education and Student Section Chair Report 2021-22**

**SR Venkatpathy**, Education Chair and Dr. Jayesh Barve, Dr Veena Hedge, SriHari Raghavan & Puliur Krishna

The education chair had interaction with the faculty development team and the outcome of the program was decided on the digital transformation. The following programs was arranged on the virtual mode. The program was for the colleges associated with the ISA Bangalore chapter and there was good response for the program.

### **Education Chair Activities**

**1.**

<i>Topic</i>	Digital Transformation in Industries
<i>Speaker</i>	Mr. Rajabhadur Arcot
<i>Date</i>	4 <sup>th</sup> Sept 2021
<i>Venue</i>	Virtual

#### **Abstract :**

Manufacturing industry has evolved over the years, but none more speedily than the digital innovation led transformation. Industries are preparing and making big investments in digital transformation initiatives to become future ready. Today's budding engineers may well grasp the nuances of technologies, such as IIOT, AI, ML, data analytics, and such others can help them transition from the 3rd era of industrialization to the emerging industry 4.0 era. In this digital transformation presentation, we will make attempt to understand what digital transformation means and get a glimpse of enabling technologies and their power to transform manufacturing.

**2.**

<i>Topic</i>	Industry 4.0 – Real Life implementation case studies
<i>Speaker</i>	Mr. Mihir Gangoly
<i>Date</i>	25 <sup>th</sup> Sept 2021
<i>Venue</i>	Virtual

#### **Abstract :**

This session will provide a good understanding of Industry 4.0, End to End Architecture, IIOT, Information Technology (IT) interface with Operational Technology (OT), and networking challenges and deployments in industry environment. Students of engineering will get to have a simple approach to appreciating how 'today's factory' works with technology adoption, also how cloud connectivity is dealt with from the shop floor of an industry.

Several case studies from BOSCH, Cummins, Cooper Standard, WBSEDCL where in the industry 4.0 has been implemented were discussed.

**3.**

<i>Topic</i>	IIOT Sensors Design, Applications and Case Studies in Manufacturing Industries
<i>Speaker</i>	Mr. Prasanna Inamdar
<i>Date</i>	16 <sup>th</sup> Oct 2021
<i>Venue</i>	Virtual

**Abstract :**

The session will provide an insight into the sensors used in IIOT, design and applications through case studies in manufacturing industries. This program will provide information regarding selection of sensors for IIOT applications through simple design for better understanding. Furthermore, the topic will include a simplified understanding of cloud connectivity of data from the industry floor.

**4.**

<i>Topic</i>	Emerging Trends in Cloud Powered IOT and Intelligent Edge Platforms
<i>Speaker</i>	Mr. Muniraju Pulipalyam
<i>Date</i>	30 <sup>th</sup> Oct 2021
<i>Venue</i>	Virtual

**Abstract :**

With emerging intelligent pervasive systems in all walks of life across consumer and industrial segments, one of the big opportunities with IoT is considering what data to use and how decision systems and IT applications can leverage the ubiquitous sensing data with IoT and cloud platforms. Cloud strategies are shifting towards the edge as businesses, decision makers are looking for a smarter way, with more resiliency, and a competitive advantage. It gave an overview of the software architecture, components of IoT solution, edge systems, allied data services and the various Azure IoT services that make up a typical complex IoT implementation in various scenarios. The session focused on emerging trends in cloud powered IoT and Intelligent edge platforms as well as emerging standards and protocols.

**5.**

<i>Topic</i>	Manufacturing Intelligence with Industry 4.0 / IIOT Case Study
<i>Speaker</i>	Mr. Ram Kerur
<i>Date</i>	9 <sup>th</sup> Oct 2021
<i>Venue</i>	Virtual

**Abstract :**

The session will provide an understanding of Industry 4.0 End to End Architecture and practical approach to implementing it in an industry environment. The program will include a few live videos for better appreciation of benefits of digitization. Furthermore, the topic will include a simplified understanding Cloud connectivity of data from the industry floor.

**Activities from the student section**

<i>Topic</i>	<i>Accelerate - 2021 - Maximise learning from your internship. Bridging Gap between Industry and Academia</i>
<i>Speaker</i>	<i>Speaker : Mr Renuka Prasad Belgur, Mr Venkatapathy, Mr Rajashekar Uchil, Dr Jayesh Barve and Mr CS Prakash</i>
<i>Date</i>	<i>19th June 2021</i>
<i>Venue</i>	<i>Virtual</i>

**Abstract :**

The speakers began the session by discussing the various skill sets and attributes that are important to develop for an engineer. They discussed in detail the importance of soft skills such as good communication, being a team player, logical reasoning, and analytical skills. They also spoke about

the attributes and the technical skills such as Presentation, Visualization, Academics, and Industrial and Management skills while paying special attention to the importance of interdisciplinary skills. The session then proceeded to the panel discussion with the speakers. It was followed by an interactive question and answer section.

Topic	<i>Webinar on Overview, membership benefits and opportunities of the ISA - C</i>
Speaker	<i>Speakers : Mr DAP Prabhakar, Ms.Missy Dash, Dr.Santhosh Desai</i>
Date	<i>7th Aug 2021</i>
Venue	<i>Virtual</i>

### **Abstract :**

The session began with a brief introduction to ISA. This was handled by Ms. Missy Dash with the assistance of Dr. Santosh R Desai. They explained how the organization develops widely used global standards; certifies industry professionals; provides education and training; publishes books and technical articles; hosts conferences and exhibits; and provides networking and career development programs for its members and customers around the world. Mr. DAP Prabhakar gave instructions on how a person can join ISA. The benefits were presented in such a convincing manner that the participants were inspired. The experience and insight of the speakers were crucial to this. They helped everyone understand this network of opportunities and how they can use it to mould their career in automation.

Topic	<i>Webinar on Opportunities in Aerospace Industry</i>
Speaker	<i>Speaker: Mr Rajshekhar Uchil</i>
Date	<i>31st Aug 2021</i>
Venue	<i>Virtual</i>

### **Abstract :**

The session began with a brief introduction about ISA, its objectives, vision, mission, member benefits, etc. Mr. Rajshekhar also discussed about the Aerospace Industries Division (ASD)- the three basic kinds of instruments viz. flight instruments, engine instruments, and navigation instruments and the Instrumentation on Ground Checking, Testing Ramp Noise, Aircraft Exterior Noise, Vibration & Shock Component Testing. The Indian Players in the aerospace industry in the government and private sectors were also highlighted during the session.

Topic	<i>CISCON - Control Instrumentation System Conference organised by Manipal Institute of Technology</i>
Speaker	<i>Dr. Jayesh Barve is one of the invited speakers for the program</i>
Date	<i>26th Nov 2021</i>
Venue	<i>Virtual</i>

### **Abstract :**

This year, the pandemic continues to force virtual meetings replacing all physical eye-ball contact meetings of ISA Bangalore. And ISA Bangalore's (ISAB) Faculty Advisors meet was no different. The virtual meet however, brought together faculty advisors from Bangalore, Hassan, Hubli, Coimbatore, Vellore, Trichy, Manipal, and Tumkur which perhaps may not have happened in the conventional physical meeting. ISAB decided to call in all faculty advisors who were on the records irrespective of the fact that some of the colleges' ISA student sections may not be active at this juncture. ISAB chose to take an accommodative approach with the impact of pandemic resulting in virtual classrooms in several colleges for better part of the academic year.

## **Student Section Activities**

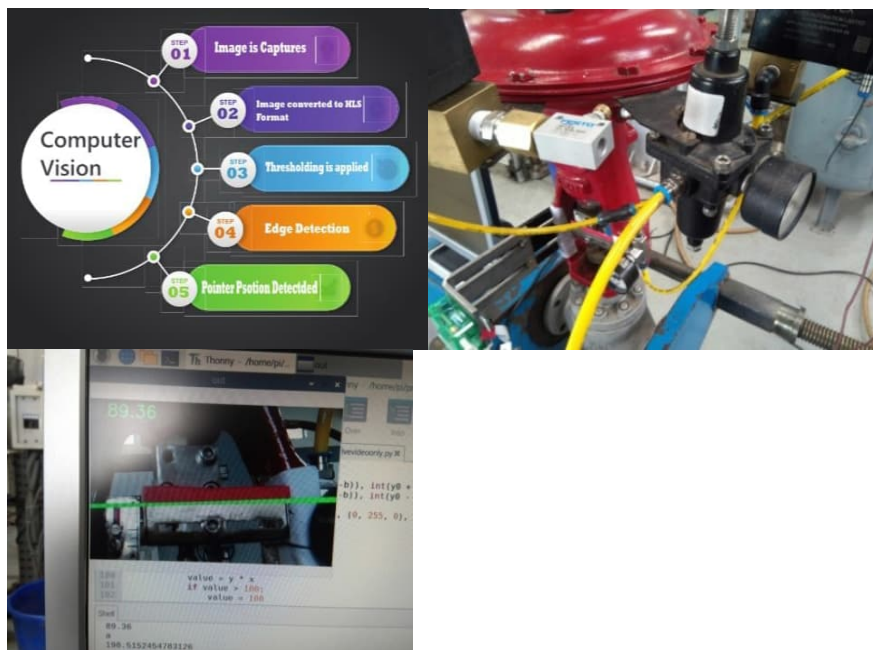
### **ISAB Experts Engagements and Visits to ISA Students Section Institutes:**

*Name of Event- Robovision under ISA Student Section of BMS College of Engineering*

*Date of Event - November 27, 2021*

*Location of Event – BMS College of Engineering Bangalore*

The FIEPER (Field Operated Robot) Project is an initiative of ACARD (Automatic Controls and Robotics Division) of International Society of Automation. Adi Shankara Institute of Engineering and Technology is actively involved in the FIEPER 2.0 during the academic year 2021-22. ASIET was one among the few Student Sections that successfully completed the Advanced Valve Positioner with the support of MIL-KSB a multinational under the parent Company KSB Pumps, headquartered in Germany. Efforts are on to productionise the developed product incorporating IoT. The product was showcased in Robovision event on 27/11/21, conducted by ISA Section under BMS College of Engineering Bangalore. ASIET Students Christin Thomas, C S Suryaraj, Devakrishna K V, Kailasnath K S with Faculty Advisor Prof Sreedeeep participated in the Robovision event.



*Name of Event- Inauguration Ceremony of ISA Student Section, Rajagiri Chapter*

*Date of Event - May 06, 2022*

*Location of Event - Rajagiri School of Engineering and Technology*

On 6th May, Mr. Ravi Balakrishnan visited Rajagiri School of Engineering and Technology to inaugurate the ISA Student Section and give an insight to all the members of the Student Section. A meeting was held with Ravi sir, Vice-Principal, Fr Dr. Jaison Paul Mulerikkal CMI, faculty advisor of ISA RSET chapter, Ms. Mary Hexy, and the ISA RSET chapter's President, Pavan Mathew, where the benefits of ISA and its advantages for the students were discussed.

The event was followed by a photo session with the participating members.



*Name of Event- Hackathon under ISA Student Section, FISAT Student section*

*Date of Event - May 18, 2022*

*Location of Event – Federal Institute of Science and Technology*



Participated as a jury for the Hackathon event participated by 7 Engineering from Kerala and 3 Engineering colleges from Tamil Nadu. The students showcased their projects under various streams of Automation ranging from Medical technology to Robotics



*Name of Event- Report on Idea Presentation – Mini Project-II*

*Date of Event - May 25th & 26th, 2022*

*Location of Event – BMS College of Engineering*

Idea presentation for Mini project II, 19EI6PWMP2, sixth semester, Electronics and instrumentation Engineering, B.M.S college of Engineering, Bangalore was evaluated by Panel of experts from industry, professional body and academia comprising of Mr Rajshekar Uchil, senior Member ISA, Mr Raghavendra Kulkarni, Director, Klok Systems, Bengaluru, Dr K Narasimha Rao, Professor, EIE, BMSCE and Prof Akshay kumar, Assistant professor, EIE, BMSCE on 24th and 25th of April 2022. A total of eighteen batches presented their ideas and were mentored by experts with suggestions for the implementation details, appropriate usage of hardware or algorithms and improvements.

*Name of Event- Felicitation of passout Students*

*Date of Event - May 19th, 2022*

*Location of Event – BMS College of Engineering*

Department of EIE conducted Felicitation function for three batches of graduates on 19th March 2022 in Auditorium 2, Platinum Jubilee Academic Block, BMSCE. The Graduates of 2019, 2020 and 2021 participated in large number and interacted with students and staff of EIE. The achievers of these batches and Faculty coordinators, Executive Committee members of Mitsubishi Electric Cup 2020 were felicitated during this occasion. Mr Rajshekar Uchil, Senior Member ISA graced the occasion.



## **Membership Chair Report 2021- 2022**

The membership chair was led by Mr. Ravi Balakrishnan. The data presented is on May 2022.

ISA provides various benefits for members. Apart from benefits provided by ISA HQ for members as indicated in [www.isa.org](http://www.isa.org), Bangalore Sections provides opportunities for networking among automation professionals working in industries, faculties & students of engineering institutions, to attend technical talks by subject matter experts, training programs, webinars, seminars & exhibitions organised by Bangalore section as well as by local student sections. Contributions by members are recognized by honours & awards committee at local and global level. Social media groups like WhatsApp and LinkedIn by Bangalore Section provided platform for exchange of technical information, sharing of success stories, event notifications and career opportunities. While membership in WhatsApp group is restricted to regular members and recently joined Automation Community Subscribers, LinkedIn group allowed any student, faculty or working professional (members as well as non-members), who are interested in Automation and activities of Bangalore Section to join the group. Presently, there are 200+ members in WhatsApp group and 500+ members in LinkedIn group

Regular reports to executive committee & members through email and WhatsApp helped to communicate the progress as well as concerns regarding membership, resolve issues and get necessary support from executive committee team

Specific guidelines for joining ISA as professional member and for renewal was prepared and shared with those in need. Alert messages were sent to those members who are either due for renewal, moved to grace period or got suspended due to non-renewal on time. Many members renewed their membership, seeing these reminders. Whenever any professional wanted assistance for joining as new member or renew his membership, it was provided quickly by email, WhatsApp or telephone calls.

Over past several years, professional membership strength of Bangalore section increased significantly. Section membership strength as of end May 2022 is 241.

The following are the breakup of the members

Members	: 43
Senior Members	: 191
Life Member	: 1
Life Senior Member	: 5

## **ISAB ISA/IEC 62443 Cybersecurity Certification Training Course**

### **Report on Professional certification Training – IC32 and IC33.**

In the recent times ICS cybersecurity is in limelight due to surge in attacks on ICS environment whether be it oil and gas, defence industry, power utilities (generation and distribution), water and wastewater management and nuclear.

Considering significant importance, interest and requirement of professionals trained with ISA 62443 cybersecurity certification, the International Society of Automation (ISA) Bangalore Section organized (1st time in Bangalore-India) a globally recognized “ISA/IEC 62443 Cyber-security Certificate Programs” training course (Courtesy: Support from ISA-D14 & ISA-Europe) with professional experienced expert trainers from ISA-Europe. This is highly discounted fees compared to listed courses fees offered by ISA online (or at ISA USA/Europe classrooms).

### **About ISA/IEC 62443 Cybersecurity Certificate Program:**

Globally recognized ISA/IEC 62443 Cybersecurity Certificate Program consists of 4 certificates.

**Certificate-1:** ISA/IEC 62443 Cybersecurity Fundamentals Specialist (Module-IC32)

**Certificate-2:** ISA/IEC 62443 Cybersecurity Risk Assessment Specialist (Module-IC33)

**Certificate-3:** ISA/IEC 62443 Cybersecurity Design Specialist (Module-IC34)

**Certificate-4:** ISA/IEC 62443 Cybersecurity Maintenance Specialist (Module-IC37)

**ISA/IEC 62443 Cybersecurity Expert:** Individual who achieves certificates 1, 2, 3 & 4 are designated as ISA/IEC 62443 Cybersecurity Expert.

To know more about ISA/IEC 62443 Cyber Security certificate programs, please visit --  
<https://www.isa.org/training-and-certifications/isa-certification/isa99iec-62443/isa99iec-62443-cybersecurity-certificate-programs/>

## **Honors & Awards Chair Report:**

The membership chair was led by Mr. Shankar Balakrishnan. We have submitted our nomination for following categories:



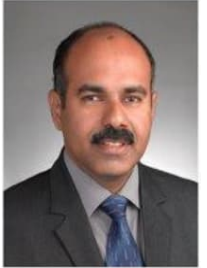






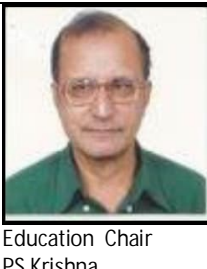


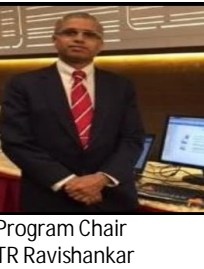

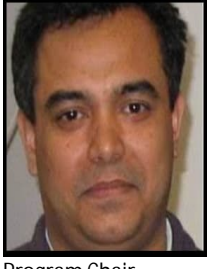





- a) Best section award,
- b) Excellency in Enduring service,
- c) Education- Mentoring excellence




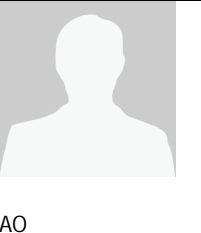
**Publications and Newsletter:****ISA Bangalore Section Quarterly News Letter:**

The Communications and newsletter was headed by Mrs. Kumuda.S

ISAB prepared 3 News Letters for periods July-Sep 2021; Oct-Dec-2021; Jan-Mar 2022. The newsletters contain Presidents message and Updates/summary of most regular events covering Techtalks, Training Events, Flagship Annual event; major students section activity updates, some relevant technical articles by professional members from academia/industry. It also covers puzzles/quiz/crosswords related to automation field. The newsletters were prepared in timely manner and circulated via ISA connect. Although, in the social media age most updates including photographs are available more quickly and fast via ISAB WhatsApp and LinkedIn groups. So, quarterly Newsletter loses significance in terms of quick updates, But newsletter has an importance and significance in terms of permanent record of the updates and report, and some interesting articles. Fourth Newsletter is getting ready to release by end of June month covering all the activities between April - June 2022.

## Executive Committee Members for the year 2021-22

				
President CS Prakash	Immediate Past President Umashankar Boregowda	President Elect K Srinath	Secretary Prasanna Inamdar	Badrinath Belgaumkar Treasurer
				
Trust Chairman Ram V Kerur	Trust Dr. KLS Sharma	Trust ,Education Chair & Delegate Venkatapathy SR	Education Chair Dr. Jayesh Barve	Education Chair Dr. Veena Hedge
				
Education Chair PS Krishna	Education Chair SriHari Raghavan	Membership Chair Ravi Balakrishnan	Membership Chair Ramesh Bonthala	Program Chair TR Ravishankar
				
Program Chair Dr. Sunil Shan	Program Chair Yogesh Alawani	Program Chair Albin Manjaly	Honors and Awards Shankar Balakrishnan	Honors and Awards Girish Ayya
				

Publication & Newletters Kumuda S	Student Section Liaison DAP Prabhakar	Student Section Liaison Dr Santhosh R Desai	Student Section Liaison Missy Dash	Web Master Gokul Deshpande
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