

# International Conference on Integrated Intelligence and Communication Systems [ICIICS–2023]

24<sup>th</sup> – 25<sup>th</sup> November

Organized by  
Sharnbasva University, Kalaburagi



Presenting

## REPORT ON CONFERENCE PROCEEDINGS

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## Preface

The papers in this volume of the Proceedings were presented at the International Conference on Integrated Intelligence and Communication Systems (ICIICS-2023), which was held on 24<sup>th</sup> & 25<sup>th</sup> of November 2023, in the Sharnbasva University, Kalaburagi, Karnataka, India.

### MODE OF CONFERENCE

A two day program of the conference was hosted in hybrid mode, with the inaugural ceremony, keynote speeches of day 1 and the paper presentations of day 1, all conducted offline at the host institute of Sharnbasva University, Kalaburagi. The inauguration and keynote speeches of day 1, were also simultaneously streamed via “WebEx”. The paper presentations of day 1 were held offline only, whereas, day 2 paper presentations were all streamed online via “Google Meet”, and there were two sessions that were conducted offline only. All papers presented formed the core of the conference, focusing on the conference theme and providing many opportunities for discussion, ultimately leading to a sustainable environment and energy.

### PAPER PRESENTATIONS

This Proceedings received an overwhelming global response from countries across the world, with an impressive total of 1207 papers from countries such as Iraq, Istanbul, China, Malaysia, Philippines, Indonesia, Bangladesh, Bangkok, Kuala Lumpur, Israel, Brazil, Ethiopia, as well as from various parts of India, to name a few, Arunachal Pradesh, Indore, Maharashtra and Rajasthan, Karnataka, Haryana and Tamil Nadu. Among the 1207 submissions, 296 papers received the final acceptance, out of which this volume encompasses 287 registered papers that were presented in the conference. Papers for this conference have been selected following a rigorous peer reviewing by at least two referees, until each of the papers met appropriate quality, expected at the conference:

Number of papers received	Number of papers accepted	Number of papers registered	Acceptance %	DAY I 01:00 PM – 04:45 PM		DAY II 10:00 AM – 04:45 PM	
				Sessions	Papers presented	Sessions	Papers presented
1207	296	287	24.5	1	9	28	278

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## Acknowledgements

We at Sharnbasva University, Kalaburagi, Karnataka, India, would like take this opportunity to extend our sincere gratitude towards all the organizers, invited speakers, session chairs, and members of the discussion panels for turning this conference into a memorable event. Without their support, this conference could not have been the success that it was.

## About Sharnbasva University

There have been many innovations in teaching methodology in the recent past, especially in higher education. But the essence of philosophy of our institution has remained as it was enunciated by Lord Sharnbasveshwar. The kind of education imparted in our institution lasts for ever, which is more rooted in encouraging our students to be self reliant, inquisitive and positive thinking governed by great tolerance. The education that we impart gives the students enormous scope for independent thinking and absorbing the differences they confront in the society. The knowledge acquired without subjecting it to enquiry has no relevance. Hence we infuse the spirit of enquiry into the minds of young students.

Self-discipline and independent thinking are the two corner stones of our institution on which the life of students is built. The faculty members make all-out efforts to stimulate intellectual honesty among students. India is a land of composite culture, naturally the strength of our campus is multi-cultures as there are students coming from different walk of life and they are unified and united in our premises. This promotes better understanding among the students who come from different backgrounds. We make the students learn how to cope-up with varied styles and thinking, thereby motivate them to work together for the betterment of society. We make tireless efforts to make our students responsible citizens of the world.

### VISION

- Enhancing the horizon of world knowledge by promoting international understanding through imparting quality education and creating value added skill based human resource.
- We aspire to become top ranking National and International Centre of Excellence producing high caliber leaders and Captains of industry.
- Inculcating the spirit of "Vasudeva Kudumbakam" (The world is one family).
- "Sakala Jeevathmarige Lesane Bayasuva" (Wishing the worldly good and betterment of all the living beings) is our moto.

### MISSION

- Achieving academic excellence through innovatively designed, research intensive, industry oriented education.
- Imbibing the culture of Independent thinking, Independent writing, Independent speaking and Independent living among the students in all the activities.
- Foster the spirit of National development and develop global competences. Nurture creativity and encourage entrepreneurship and provide an education with rigor and relevance.

- Provide academically excellent,time efficient, and cost effective higher education. Provide an education which enhances the ability of students to learn throught the life.
- Ensure freedom of thought and expression in a campus without discrimination
- Encourage the spirit of questioning and ensure close inter-relationship between Teaching, Scholarship and Research.
- Develop and deliver distinctive and value driven academic programme that are flexible and responsible to Local, National and International needs.
- Cultivate academic, business and community driven partnership that positions the University as a leading choice for adult learners.
- To work effectively with other institutions and organisations, where such partnerships can lead to understanding research and teaching.

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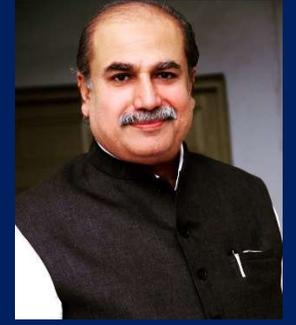
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**Dr. Basavaraj Mathapathi**  
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## **A Brief on ICIICS-2023**

International Conference on Integrated Intelligence and Communication Systems (ICIICS-2023) aims to provide a high level international forum for researchers, engineers and scientists to present their new advances, research results and trends in the field of Integrated Intelligence and Communication Systems. The ever-changing scope and rapid development in Integrated Intelligence and Communication Systems create new problems and questions, resulting in the real needs for sharing brilliant ideas and stimulating good awareness of this important research field. This peer reviewed Conference provided a setting for discussing recent developments in a wide variety of topics including Image and Video Processing, Cloud-based Communication Systems, Intelligent Sensing and Sensor Networks. This conference provided all attendees with the opportunities to meet and interact with one another, discuss about their ideas and to build international links for future collaborations.

## Event Details

<b>Name</b>	:	<b>International Conference on Integrated Intelligence and Communication Systems [ICIICS– 2023]</b>
Type	:	Research and Innovation Consortium
Description	:	IEEE International Conference Proceedings
Venue [Offline]	:	Sharnbasva University, Kalaburagi
Venue [Online]	:	[Google Meet / WebEx]
Inaugural Ceremony	:	Sharnbasva University, Kalaburagi WebEx
Paper Presentations	:	Sharnbasva University, Kalaburagi Google Meet
Keynote Speeches	:	Sharnbasva University, Kalaburagi WebEx
Deadline for Full paper submission	:	30 <sup>th</sup> September 2023
Paper Acceptance Notification	:	15 <sup>th</sup> October 2023
Conference Registration Deadline	:	25 <sup>th</sup> October 2023
Conference Dates	:	24 <sup>th</sup> – 25 <sup>th</sup> November 2023

# Conference Tracks

The presentations given at the proceedings encompassed a wide variety of research topics that majorly involved, but were not limited to the following domains:

Integrated Intelligence	Communication Systems
Applied Computing	5G and Beyond Communication Systems
Cloud Computing & Cluster Computing	Wireless Communication Systems and Networks
Pervasive/Ubiquitous Computing and Applications	Mobile and Cellular Communication Systems
Cryptography & Cybernetics	Communication Protocols and Standards
Quantum Computing and Information Processing	Satellite Communication Systems
Intelligent Energy and Sustainability	Signal Processing
Grid computing & Green Computing	Cognitive Radio and Spectrum Sharing Systems
Computer Vision and Perception	Optical Communication Systems and Networks
Swarm Intelligence	Smart Grid Communication Systems
Web Intelligence and Computing	Underwater Communication Systems
Robotics and Autonomous Systems	Vehicle-to-Vehicle (V2V) Communication Systems

# Proceedings Summary

**DAY 1 = 24<sup>TH</sup> NOVEMBER 2023**  
**ALSO STREAMED ON: WEBEX**

The inaugural ceremony of ICIICS 2023 finally commenced on the 24<sup>th</sup> of November 2023 in the host institute at the scheduled time of 10:30 am, and was also being streamed through the virtual platform: WebEx.

## PRELIMINARY SPEECHES

The conference began on a formal note, when the first 30-minute keynote speech was delivered by honourable speaker, Dr. Soenil Soebedar, Founder and CEO of Soebit Cybersecurity, on the title: Cybersecurity & Cryptography within Critical Infrastructure. It was then followed by a positively inspiring invocation, rendered by the music department of the Sharnbasva University, Kalaburagi, for an auspicious ongoing of the proceedings.

Our dignitaries were then given a warm welcome address by Dr. AnilKumar Bidve, Registrar, Sharnbasva University, Kalaburagi. This was followed by the lighting of the lamp, after which a brief overview about the conference was presented by Dr. Lakshmi Patil, Dean, Sharanbasva University, Kalaburagi. The release of the conference proceedings was officially conducted to formally start the primary events. To begin with, our chief guests, Dr. Ajay Singh, Chairman KKR, MLA, Jewargi, India, addressed the audience. The guest of honors who were: (i) Dr. Rocío Pérez de Prado, University of Jaén, Spain, (ii) Dr. C Krishna Mohan, Dean (Public and Corporate Relations), IIT Hyderabad, India, (iii) Dr. Sudhan Majhi, IISc Bangalore, India, (iv) Dr. Suppawong Tuarob, Mahidol University, Thailand, and (v) Dr. Parameshachari B. D., SAC Co-chair, IEEE Bangalore Section, NMIT Bangalore, India, also delivered their addresses to the audience. This was followed up by a 5-minute video message. Then we had a 5-minute address given by Shri Baswaraj Deshmukh, Secretary, Sharnbasveshwar Vidya Vardhak Sangha, Sharnbasva University, Kalaburagi.

Finally, the Presidential Address was given by Dr. Niranjan Nisty, Vice Chancellor, Sharnbasva University, Kalaburagi. After this, the inaugural ceremony was concluded at the scheduled time of 01:00 pm, accompanied by a vote of thanks.

## KEYNOTE SPEECH 2

Immediately following the vote of thanks, a 30-minute speech was delivered by honourable speaker, Dr. Suppawong Tuarob, Mahidol University, Thailand, on the title: Leveraging Large-scale Online Media for Social Good Applications.

## KEYNOTE SPEECH 3

After an hour break, a 30-minute speech was given by honourable speaker, Dr. Sudhan Majhi, IISC Bangalore, India, on the title: \_\_\_\_\_.

#### KEYNOTE SPEECH 4

Immediately after, our honourable speaker, Dr. Rocío Pérez de Prado, University of Jaén, Spain, addressed the audience for half an hour on the title: Intelligent Management of Telecommunication Systems with AI/ML.

**DAY 1 = 24<sup>TH</sup> NOVEMBER 2023  
ONLY OFFLINE**

#### PAPER PRESENTATIONS: [Session 1]

1 session was dedicated for paper presentations. Each author was given a time of 10 minutes under which both, paper presentation and the Q & A discussion had to be completed. A total of 9 papers were presented during this session.

**DAY 2 = 25<sup>TH</sup> NOVEMBER 2023  
ONLY OFFLINE**

#### SESSION 1

The second day officially began with a session conducted by a team from IIT, Hyderabad, on the topic of: Intellectual solutions on Article Writing.

#### SESSION 2

After the first batch of paper presentations, Dr. M. Kantha Babu, Director - CIPR, Anna University, India, organised a session on the topic of: Intellectual solutions on IPR.

**DAY 2 = 25<sup>TH</sup> NOVEMBER 2023  
STREAMED ON: GOOGLE MEET**

#### PAPER PRESENTATIONS: [Sessions 1 - 14]

The first offline session was followed up by 14 parallel sessions, dedicated for paper presentations. Each author was given a time of 10 minutes to complete the paper presentation and the Q & A discussion. A total of 143 papers were presented over the span of these 14 sessions, with 10 papers presented each in sessions [1-7] as well as sessions [11-14], and 11 papers presented each in sessions [8-10].

#### PAPER PRESENTATIONS: [Sessions 15 - 28]

After the second offline session, another 14 parallel sessions were dedicated for paper presentations. Each author was given a time of 10 minutes to complete the paper presentation and the Q & A discussion. A total of 135 papers were presented over the span of these 14 sessions, with 10 papers presented each in sessions [15-20] as well as sessions [22-27], 9 papers presented in session [21], and 6 papers presented in session [28].

## Schedule

**24<sup>th</sup> November 2023: 10:30 am – 01:00 pm**

**Venue: Sharnbasva University, Kalaburagi / Streamed on: WebEx**

### INAUGURATION CEREMONY

Master of Ceremony:		
Time	Activity	Presenter
10:30 – 11:00	Keynote Speech 1	<b>Dr. Soenil Soebedar</b> Founder & CEO, Soebit Cybersecurity Title: Cybersecurity & Cryptography within Critical Infrastructure
11:30 – 11:35	Invocation	<b>Music Department</b> Sharnbasva University
11:35 – 11:40	Welcome Address	<b>Dr. AnilKumar Bidve</b> Registrar, Sharnbasva University, Kalaburagi, India
11:40 – 11:45	Lightning the lamp	
11:45 – 11:50	About the Conference	<b>Dr. Lakshmi Patil</b> Dean, Sharnbasva University, Kalaburagi, India
11:50 – 11:55	Release of Conference Proceedings	
11:55 – 12:05	Address by: Chief Guest	<b>Dr. Ajay Singh</b> Chairman KKRD, MLA, Jewargi, India
12:05 – 12:10	Address by: Guest of Honor	<b>Dr. Rocío Pérez de Prado</b> University of Jaén, Spain
12:10 – 12:15	Address by: Guest of Honor	<b>Dr. C Krishna Mohan</b> Dean (Public and Corporate Relations), IIT Hyderabad, India
12:15 – 12:20	Address by: Guest of Honor	<b>Dr. Sudhan Majhi</b> IISC Bangalore, India
12:20 – 12:25	Address by: Guest of Honor	<b>Dr. Suppawong Tuarob</b> Mahidol University, Thailand

12:25 – 12:30	Address by: Guest of Honor	<b>Dr. Parameshchhari B. D.</b> SAC Co-chair, IEEE Bangalore Section, NMIT Bangalore, India
12:30 – 12:35	<b>Video Message</b>	
12:35 – 12:40	Address by:	<b>Shri Baswaraj Deshmukh</b> Secretary, Sharnbasveshwar Vidya Vardhak Sangha, Kalaburagi, India
12:40 – 12:50	Presidential Address by:	<b>Dr. Niranjana Nisty</b> Vice Chancellor, Sharnbasva University, Kalaburagi, India
12:50 – 01:00	<b>Vote of Thanks</b>	

**24<sup>th</sup> November 2023: 01:00 pm – 4:45 pm**

**Venue: Sharnbasva University, Kalaburagi / Streamed on: WebEx**

**Session Schedule**

01:00 PM – 01:30 PM	Keynote Speech 2	<b>Dr. Suppawong Tuarob</b> Mahidol University, Thailand <b>Title: Leveraging Large-scale Online Media for Social Good Applications</b>	
02:30 PM – 03:00 PM	Keynote Speech 3	<b>Dr. Sudhan Majhi</b> IISC Bangalore, India <b>Title: _____</b>	
03:00 PM – 03:30 PM	Keynote Speech 4	<b>Dr. Rocío Pérez de Prado</b> University of Jaén, Spain <b>Title: Intelligent Management of Telecommunication Systems with AI/ML</b>	
3:15 PM – 4:45 PM	Paper Presentation (Each Paper 10 Minutes)  (ONLY OFFLINE)	Session 1	ICIICS548, ICIICS475, ICIICS581, ICIICS971 ICIICS580, ICIICS978, ICIICS585, ICIICS864 ICIICS985

**25<sup>th</sup> November 2023: 10:00 am – 4:45 pm**

**Venue: Sharnbasva University, Kalaburagi / Streamed on: Google Meet**

**Session Schedule**

10:00 AM – 12:30 PM	Intellectual solutions on Article Writing  (ONLY OFFLINE)	<b>IIT Hyderabad</b>	
11:30 AM – 01:00 PM	Paper Presentation	Session 1	ICIICS141, ICIICS388, ICIICS31, ICIICS66, ICIICS73, ICIICS415, ICIICS430, ICIICS448, ICIICS454, ICIICS511

(Each Paper 10 Minutes)	Session 2	ICIICS632, ICIICS579, ICIICS624, ICIICS115, ICIICS196, ICIICS827, ICIICS513, ICIICS810, ICIICS470, ICIICS82	
	Session 3	ICIICS625, ICIICS354, ICIICS885, ICIICS547, ICIICS365, ICIICS629, ICIICS486, ICIICS751, ICIICS808, ICIICS877	
	Session 4	ICIICS257, ICIICS518, ICIICS611, ICIICS144, ICIICS341, ICIICS983, ICIICS367, ICIICS891, ICIICS687, ICIICS662	
	Session 5	ICIICS480, ICIICS242, ICIICS940, ICIICS541, ICIICS249, ICIICS590, ICIICS878, ICIICS902, ICIICS789, ICIICS921	
	Session 6	ICIICS521, ICIICS240, ICIICS947, ICIICS464, ICIICS802, ICIICS922, ICIICS561, ICIICS872, ICIICS890, ICIICS829	
	Session 7	ICIICS623, ICIICS907, ICIICS870, ICIICS871, ICIICS508, ICIICS895, ICIICS747, ICIICS455, ICIICS710, ICIICS850	
	Session 8	ICIICS358, ICIICS937, ICIICS277, ICIICS483, ICIICS409, ICIICS350, ICIICS519, ICIICS153, ICIICS465, ICIICS422, ICIICS886	
	Session 9	ICIICS674, ICIICS315, ICIICS543, ICIICS734, ICIICS72, ICIICS452, ICIICS9963, ICIICS9964, ICIICS411, ICIICS725, ICIICS930	
	Session 10	ICIICS412, ICIICS413, ICIICS369, ICIICS936, ICIICS943, ICIICS883, ICIICS898, ICIICS456, ICIICS500, ICIICS887, ICIICS563	
	Session 11	ICIICS1120, ICIICS1611, ICIICS1924, ICIICS2285, ICIICS2674, ICIICS3125, ICIICS4868, ICIICS7044, ICIICS7574, ICIICS7994	
	Session 12	ICIICS1159, ICIICS3632, ICIICS3681, ICIICS3779, ICIICS4201, ICIICS4838, ICIICS6360, ICIICS7992, ICIICS8534, ICIICS9714	
	Session 13	ICIICS1451, ICIICS1897, ICIICS2505, ICIICS3837, ICIICS4276, ICIICS4302, ICIICS7118, ICIICS7547, ICIICS8479, ICIICS8636	
	Session 14	ICIICS1178, ICIICS1427, ICIICS3310, ICIICS5115, ICIICS6377, ICIICS6553, ICIICS6640, ICIICS8684, ICIICS9389, ICIICS9733	
	02:00 PM – 03:00 PM	Intellectual solutions on IPR (ONLY OFFLINE)	<b>Dr. M. Kantha Babu</b> Director - CIPR, Anna University, India
3:15 PM – 4:45 PM	Paper Presentation (Each Paper 10 Minutes)	Session 15	ICIICS1118, ICIICS4089, ICIICS4980, ICIICS6085, ICIICS6528, ICIICS8203, ICIICS8224, ICIICS8568, ICIICS9184, ICIICS9962
	Session 16	ICIICS1934, ICIICS2986, ICIICS3367, ICIICS4289, ICIICS7551, ICIICS7695, ICIICS7774, ICIICS8238, ICIICS8943, ICIICS9683	
	Session 17	ICIICS1355, ICIICS1632, ICIICS3042, ICIICS4342, ICIICS4640, ICIICS4846, ICIICS4940, ICIICS8060, ICIICS8318, ICIICS9380	
	Session 18	ICIICS1177, ICIICS1475, ICIICS2580, ICIICS3458, ICIICS3856, ICIICS4122, ICIICS5706, ICIICS6859, ICIICS8004, ICIICS9595	
	Session 19	ICIICS1230, ICIICS4175, ICIICS4974, ICIICS6076, ICIICS6648, ICIICS7922, ICIICS8522, ICIICS9470, ICIICS9543, ICIICS9604	
	Session 20	ICIICS1523, ICIICS2946, ICIICS4331, ICIICS5097, ICIICS5815, ICIICS5858, ICIICS6335, ICIICS6590, ICIICS7895, ICIICS9621	
	Session 21	ICIICS1849, ICIICS6045, ICIICS6209, ICIICS6604, ICIICS7439, ICIICS7520, ICIICS8560, ICIICS8622, ICIICS9892	

	Session 22	ICIICS1346, ICIICS1414, ICIICS3272, ICIICS3470, ICIICS4498, ICIICS4692, ICIICS4896, ICIICS8226, ICIICS8935, ICIICS8985
	Session 23	ICIICS2877, ICIICS2878, ICIICS4255, ICIICS4790, ICIICS5250, ICIICS5324, ICIICS6128, ICIICS6391, ICIICS6755, ICIICS6962
	Session 24	ICIICS5254, ICIICS5284, ICIICS5654, ICIICS5886, ICIICS6431, ICIICS6440, ICIICS6444, ICIICS6589, ICIICS6594, ICIICS7880
	Session 25	ICIICS4998, ICIICS5416, ICIICS5757, ICIICS5794, ICIICS5915, ICIICS6078, ICIICS6628, ICIICS6692, ICIICS6843, ICIICS7868
	Session 26	ICIICS577, ICIICS1322, ICIICS1326, ICIICS5488, ICIICS6100, ICIICS6269, ICIICS6543, ICIICS7884, ICIICS7888, ICIICS9968
	Session 27	ICIICS1338, ICIICS1339, ICIICS1340, ICIICS1345, ICIICS1347, ICIICS1348, ICIICS1349, ICIICS1350, ICIICS1353, ICIICS1400
	Session 28	ICIICS1545, ICIICS1676, ICIICS1828, ICIICS2656, ICIICS6985, ICIICS7536

## Achievers of “Best Paper” Awards

The research papers that excelled the most in all the aspects, such as technical depth, relevancy to current advancements, as well as elegant and structured presentation, were felicitated with the “Best paper Award” which was awarded as per session-wise.

<b>Day 1 : 24<sup>th</sup> November 2023</b>			
SESSION NO.	TIME	BEST PAPER ID	
Session 1	3:30 PM – 4:45 PM	ICIICS548	
<b>Day 2 : 25<sup>th</sup> November 2023</b>			
TIME = 11:30 AM – 01:00 PM		TIME = 3:15 PM – 4:45 PM	
SESSION NO.	BEST PAPER ID	SESSION NO.	BEST PAPER ID
Session 1	ICIICS448, ICIICS864	Session 15	ICIICS8224
Session 2	ICIICS115	Session 16	ICIICS2986
Session 3	ICIICS885	Session 17	ICIICS4940
Session 4	ICIICS687	Session 18	ICIICS5706

Session 5	ICIICS541	Session 19	ICIICS9604
Session 6	ICIICS947	Session 20	ICIICS7895
Session 7	ICIICS508	Session 21	ICIICS8622
Session 8	ICIICS350	Session 22	ICIICS1414
Session 9	ICIICS930	Session 23	ICIICS5324
Session 10	ICIICS456	Session 24	ICIICS6444
Session 11	ICIICS7044	Session 25	ICIICS4998
Session 12	ICIICS4201	Session 26	ICIICS7888
Session 13	ICIICS1451	Session 27	ICIICS1349
Session 14	ICIICS9389	Session 28	ICIICS2656

## Gallery

### A FEW SNAPSHOTS FROM THE INAUGURATION



## A GLIMPSE OF THE OVERALL PROCEEDINGS



## ICDMNWC-2022 Organizing Committee

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Indian Institute of Technology, Hyderabad, India



Dr. Lakshmi Patil Maka  
Dean, Sharnbasva University, Kalaburagi, India

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Chapter, Chairman, IETE Kalaburagi Center and Member, India



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Prof. Kiran Maka  
Finance officer, Sharnbasva University, Kalaburagi, India

#### KEYNOTE SPEAKERS

**Keynote Speech 1 (DAY 1)**  
Dr. Soenil Soebedar  
Founder & CEO, Soebit Cybersecurity  
**Speech Title : Cybersecurity & Cryptography within Critical Infrastructure**





**Keynote Speech 2 (DAY 1)**

Dr. Suppawong Tuarob  
Mahidol University, Thailand

**Speech Title:** Leveraging Large-scale Online Media for Social Good Applications

**Keynote Speech 3 (DAY 1)**

Dr. Sudhan Majhi  
IISC Bangalore, India

**Speech Title:** \_\_\_\_\_



**Keynote Speech 4 (DAY 1)**

Dr. Rocío Pérez de Prado  
University of Jaén, Spain

**Speech Title:** Intelligent Management of Telecommunication Systems with AI/ML