



Shri Balasaheb Mane Shikshan Prasarak Mandal's ASHOKRAO MANE GROUP OF INSTITUTIONS

Vathar Tarf Vadgaon, Tal.: Hatkanangale, Dist. Kolhapur - 416 112 (MS)



An Autonomous Institute



45th GISFI STANDARDIZATION SERIES MEETING
&
INTERNATIONAL WORKSHOP ON
"DIGITIZATION: BRIDGING THE PRESENT & FUTURE"

ASHOKRAO MANE GROUP

ENGINEERING PHARMACY BAMS BHMS MBA B.ED POLYTECHNIC ITI NURSING

www.amgkolhapur.com



**45th GISFI Standardization Series Meeting &
International Workshop on
“Digitization: Bridging the Present & Future”
Jointly with ICIRSD–2025**

Venue: Seminar Hall, AMGOI, Vathar

Dates: 30th October – 1st November 2025

Detailed Report

INTERNATIONAL CONFERENCE ON INTEGRATED RESEARCH AND SUSTAINABLE DEVELOPMENT

(ICIRSD - 2025) (Hybrid Mode)

Jointly with

45TH GISFI STANDRDIZATION SERIES MEETING

30th, 31st October & 1st November 2025

CHIEF PATRONS

Hon. Shri. Vijaysinh Mane
 President, SBMSPM, Ambap

Hon. Prof. Dr. Ramjee Prasad
 Chair GISFI and Founder President,
 CTIF Global Capsule, Denmark

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 Vice Chancellor, Dr. Babasaheb Ambedkar
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Hon. Prof. Dr. Peter Lindgren
 Vice President, CTIF Global Capsule, Denmark

Hon. Prof. Dr. Mahesh Chavan
 Professor, KITCOE, India

Hon. Prof. Dr. Harshadeep Joshi
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CALL FOR PAPERS

The International Conference on Integrated Research and Sustainable Development (ICIRSD) is a premier interdisciplinary platform that brings together researchers, academicians, policymakers, industry experts and students from around the globe. The conference will be held at Shri Balasaheb Mane Shikshan Prasarak Mandal's Ashokrao Mane Group of Institutions (Autonomous), Vathar Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur, Maharashtra, India on 30th, 31st October and 1st November 2025.

IMPORTANT DATES

- > Paper Submission Deadline (Extended) - 31st August 2025 **15th September 2025**
- > Submission Deadline for Camera Ready Paper - 27th September 2025
- > Notification of Acceptance - 20th September 2025
- > Last Date of Registration - 30th September 2025
- > Date of Conference - 30th, 31st October and 1st November 2025

SCOPE

Track 1 : Intelligent Technologies and Next-Gen Computing

Track 2 : Smart Systems, Energy and Sustainable Infrastructure

Track 3: Innovation, Sustainability and Business Intelligence

PAPER SUBMISSION GUIDELINES

- > Submitted papers (in PDF or Word format) must use the mentioned Manuscript Template for Conference Proceeding. For paper template visit - <https://amgoi.edu.in/icirsd-2025/>
- > The paper should be a maximum of 6 pages. For over-length papers, an additional fee of INR 500 per page will be applicable.
- > All submitted papers will undergo a peer review process. Submissions will also undergo a plagiarism check and papers with similarity scores of 15% or higher may be subject to rejection without further review.

PAPER SUBMISSION LINK

<https://forms.gle/LdQRPCksPFdcQ7dQ9>



PUBLICATION GUIDELINES

- > All accepted and presented papers will be published in the Conference Proceeding with ISBN.
- > Selected papers will be published in Springer Series (Scopus Indexed) with additional charges and subject to fulfillment of Springer norms.
- > High-quality papers will be peer reviewed and published in Scopus Indexed Journals by Bentham Science Publishers with separate article processing charges.

REGISTRATION FEE

Registration Category	Indian Delegates	Foreign Delegates
Research Scholars/PG Students/Faculty	3000 INR	35 USD
UG Students	2500 INR	30 USD
Academic Researchers/ Industry Person	3500 INR	40 USD
Participants (Non-Authors)	1000 INR	12 USD

- > Registration Kit and E-certificates will be issued to registered participants.

Note - The conference will be in HYBRID mode. Remote presentations will be allowed, even though in-person attendance is encouraged. We invite you to attend ICIRSD 2025 and suggest to your friends/industry person/colleagues/students for research presentation.

Contacts

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PUBLICATION PARTNERS



INTERNATIONAL CONFERENCE ON INTEGRATED RESEARCH AND SUSTAINABLE DEVELOPMENT (ICIRSD - 2025) (Hybrid Mode)

Jointly with

45TH GISFI STANDRDIZATION SERIES MEETING

30th, 31st October & 1st November 2025

Deadline for Paper Submission Extended to 15th September 2025

SCOPE

TRACK 1

Intelligent Technologies
and Next-Gen Computing

TRACK 2

Smart Systems, Energy and
Sustainable Infrastructure

TRACK 3

Innovation, Sustainability
and Business Intelligence

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PAPER SUBMISSION LINK

<https://forms.gle/LdQRPCksPFdcQ7dQ9>



Scan
QR Code For
Submission

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PUBLICATION
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 Springer

 Scopus

 BENTHAM
SCIENCE

 River Publisher

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Shikshan Prasarak Mandal,
Ambap

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Chair GISFI and Founder
President CTIF Global
Capsule, Denmark

Hon. Col. Prof. Karbhari V. Kale
Vice-Chancellor, Dr. Babasaheb
Ambedkar Technological University,
Maharashtra, India

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Campus Director, Ashokrao Mane Group of Institutions,
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Director, Ashokrao Mane Group of Institutions,
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New Delhi & Former Director- NBA

Prof. Dr. Sibaram Khara
Vice Chancellor,
Sharda University, Uttar Pradesh

Prof. Dr. Dharmendra Kumar Singh
Vice Chancellor,
Jharkhand University of Technology, Ranchi

Prof. Peter Lindgren
Vice-President, CTIF Global Capsule,
Denmark

Prof. Dr. Mahesh Chavan
Professor, KITCOE,
Kolhapur, India

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Dr. V. S. Wadkar, HOD, EE



Organized by

Shri. Balasaheb Mane Shikshan Prasarak Mandal's, Ashokrao Mane Group of Institutions,
Vathar Tarf Vadgaon (An Autonomous Institute), Kolhapur, Maharashtra, India (416 512) www.amgoi.edu.in
Venue- Seminar Hall, AMGOI, Vathar



Day 01- 30th October, 2025 (Thursday)

Inaugural Session

Venue-Seminar Hall, AMGOI, Vathar	
Time	Details
09.00	Welcome & Introduction
09.00-09.05	National Anthem
09.05-09.10	Lighting of the Lamp
09.10-09.20	Welcome & Conference Overview Dr. (Mrs.) Sangeeta R. Chougule, Director, AMGOI
09.20-09.30	Felicitations of Guests
09.30-09.40	Organization Overview Prof. Pravin B. Ghewari, Campus Director, AMGOI
09.40- 09.55	Opening Message Hon. Prof. Ramjee Prasad Founder President, CTIF Global Capsule, Founder Chair GISFI. Founder Chair/Co-Chair, GWS/WPMC, Steering Board, Founder President, Vishwaniketan. Former Professor at Department of Business Development and Technology, Aarhus University, Herning Campus, Denmark.
09.55-10.05	Formal Announcement of 1. Conference Proceedings of ICIRSD-2025 2. MOUs with Foreign Universities & Industries
10.05-10.20	Speech by Hon. Dr. Raman Batra Managing Director & COE, YeniAI, Uttar Pradesh
10.20-10.30	Speech by Honorary Chair Prof. Dr. K. K. Aggarwal President, South Asian University, New Delhi & Former Director- NBA
10.30-10.40	Speech by Chief Patron Hon. Col. Prof. Karbhari Vishwanath Kale Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Maharashtra, India.
10.40-10.50	Presidential Remark Hon. Shri. Vijaysinh Mane President, SBMSPM, Ambap
10.50-10.55	Vote of Thanks Dr. Mrs. Seema S. Patil, Convener (ICIRSD-2025), AMGOI

Invitee Guest

- 1. Prof. Dr. Damodar Acharya**
Former Director, IIT Kharagpur
- 2. Dr. Raman Batra**
Managing Director & CEO, YeniAI, Uttar Pradesh

Guest of Honor

- 1. Mr. Ravi Dolla**
Proprietor, Castco and Managing Director, Mayura Steels Pvt. Ltd., Kolhapur
- 2. Mr. Kailash Medhe**
Founder & CEO, Skylark Digital Inc., USA and Director, Skylark Technologies, Kolhapur



Day 01- 30th October, 2025 (Thursday)

Venue- Seminar Hall, AMGOI, Vathar			
Time	Session		
12.00-12.30	Keynote Session Chair and Speaker: Prof. Dr. Sibaram Khara, VC, Sharda University, Uttar Pradesh (6G: A Game Changer for Holistic Global Development)		
12.30-01.00	Keynote Speaker 2: Prof. Peter Lindgren, Vice-President, CTIF Global Capsule, Denmark		
Lunch (01.00 pm to 01.45 pm)			
Session	Time	Topic	Experts
01	01.45 - 02.15	Immersive AI in Education – Reimagining Learning Through Intelligent Avatars and Emerging Technologies	Dr. Raman Batra, Managing Director & CEO, YeniAI, Uttar Pradesh
02	02.15 - 02.35	TBD	Dr. Alben Mihovska, Senior Academic Research Professional, Denmark
03	02.35 - 03.00	Bridging the Present and Future: An Architectural Framework for Value-Driven Digital Transformation	Mr. Vivek Ahuja Narrative Architect Urban Technologist Experiential Built Environment Expert
04	03.00 - 03.25	6G, AI and Cloud Will Revolutionize the Digital Landscape	Dr. Debu Nayak, Ericson, New Delhi
05	03.25 - 03.50	Artificial Intelligence Applications, Challenges and Opportunities	Dr. Manesh B. Kokare, Principal & Director, SGGSIET, Nanded
Tea Break (03.50pm to 04.00pm)			
06	04.00 - 05.30	<p>Panel Discussion: Technology, Innovation, Society & Ethics</p> <p>Points:</p> <ul style="list-style-type: none"> AI and Automation: enablers or replacers of human potential? The role of blockchain in a digitally secure future Digital Twins and the Future of Smart Cities Quantum Computing: Next Frontier or Distant Dream? Digital Inclusion: Closing the Connectivity Gap Ethics in AI: Can Machines Be Fair? Data Privacy in a Hyper-Connected World Digitization and Mental Health: Finding a Balance 	<p>Panelist:</p> <ol style="list-style-type: none"> 1. Dr. Debu Nayak, Erricson, New Delhi 2. Dr. Manesh B. Kokare, Principal & Director, SGGSIET, Nanded 3. Dr. Alben Mihovska, Denmark 4. Mr. Vivek Ahuja, Narrative Architect Urban Technologist Experiential Built Environment Expert <p>Moderator: Dr. Sunil Kr Pandey Director, Institute of Technology and Science Mohan Nagar</p>
Gala Dinner (07.30-09.00)			

Paper Presentation Schedule

Time	Track 1	Track 2	Track 3
08.30-09.00	Registration	Registration	Registration
09.00-11.05	Inaugural Function	Inaugural Function	Inaugural Function
11.05-11.30	Coffee break and networking	Coffee break and networking	Coffee break and networking
11.30-01.10	Presentations	Presentations	Presentations
01.10-01.45	Lunch	Lunch	Lunch
01.45-03.50	Presentations	Presentations	Presentations

Day 02- 31st October, 2025 (Friday)

Venue- Seminar Hall, AMGOI, Vathar			
Session	Time	Topic	Experts
07	09.00-09.20	DeWi- Blockchain Based Decentralized Wi-Fi Hotspots Network as Phygital Public Good.	Dr. Satya N. Gupta, Professor of Practice, South Asian University, New Delhi
08	09.20-09.40	EU & India Partnership: Role of Standards in Building Digital Infrastructure	Mr. Dinesh Chand Sharma, Director - EU Project SESEI, New Delhi
09	09.40-10.00	TBD	Prof. Dr. Damodar Acharya Former Director, IIT, Kharagpur.
10	10.00-10.20	Decentralized Finance and Beyond: Blockchain for Secure, Compliant Systems	Dr. Pradnya Patil, Assistant Professor, Symbiosis Artificial Intelligence Institute, Pune
11	10.20-10.40	Intelligent Video Surveillance Systems for Achieving Sustainable Development Goals: A Technological Perspective	Dr. Komal Jadhav, KITCOE, Kolhapur
12	10.40-11.00	Green IT and Cloud Computing: Innovation Towards a Sustainable Future	Dr. Sunil Kr Pandey, Professor & Director, ITS, Mohan Nagar, Greater Noida
Tea Break (11.00 -11.20)			
13	11.20- 11.40	Cyber Awareness	Mr. Kishore K. Thakur, ITS officer, Hyderabad
14	11.40-12.00	Quality of Service in Mobile Adhoc Network (MANET)	Dr. Uttam Kolekar, Principal, APSIT, Thane
15	12.00-12.20	NEP for Enhanced Research Quality	Dr. Pradeep Mane, Principal, AISSMSIOIT, Pune
16	12.20-12.40	TBD	Mr. Amit Deshmukh, Director, Global Projects, New Delhi
17	12.40- 01.00	Spectrum Sharing in IMT: Approaches and Global Practices	Dr. P S M Tripathi, Sr. Deputy Wireless Adviser at Dept. of Telecommunications, GOI.
18	01.00-01.25	TBD	Mr. Ravi Kumar, Singapore
Lunch (01.25-01.55)			
19	01.55-02.20	Role of NGN in Enabling Digital Transformations for Rural Upliftment, in Digitizing Rural India	Dr. Dnyaneshwar Mantri, Professor, SIT, Lonavala
20	02.20-02.45	Generative AI for Responsible Innovation and Sustainable Growth	Dr. Kumud Saxena, Dean, SCSIT, NIET, Greater Noida
21	02.45-03.10	Industry 5.0: Transforming Manufacturing with IoT	Dr. Reena Disawal, Professor, PIEMR, Indore
22	03.10-03.35	Digital Wellness	Dr. Shivprasad Pandurang Patil, Principal, NBN STIC, Pune
Tea Break (03.35- 04.00)			
23	04.00- 05.15	<p>Panel Discussion: Business & Industry</p> <p>Points:</p> <ul style="list-style-type: none"> The Future of Work in a Digital Economy Digital Transformation in Traditional Industries: Successes and Struggles From Brick-and-Mortar to Digital-First: The New Customer Journey Data-Driven Decision-Making: Where Are We Headed? 	<p>Panelist:</p> <ol style="list-style-type: none"> 1. Dr. Satya N. Gupta, Professor of Practice, South Asian University, New Delhi 2. Dr. Kishore K. Thakur, Hyderabad 3. Dr. Dnyaneshwar Mantri, SIT, Lonavala 4. Dr. Kumud Saxena, Head CSE, NIET Greater Noida, UP 5. Dr. Sriganesh K. Rao, Techno-Business Strategist, Bangalore <p>Moderator: Dr. Pradeep Mane, Principal, AISSMSIOIT, Pune</p>
Cultural Program (05.30-06.30)			

Paper Presentation Schedule

Time	Track 1	Track 2	Track 3
08.30-09.00	Registration	Registration	Registration
09.00-11.00	Presentations	Presentations	Presentations
11.00-11.20	Tea Break	Tea Break	Tea Break
11.20-01.25	Presentations	Presentations	Presentations
01.25-01.55	Lunch	Lunch	Lunch
01.55-04.00	Presentations	Presentations	Presentations

Day 03- 01st November, 2025 (Saturday)

Venue- Seminar Hall, AMGOI, Vathar			
Session	Time	Topic	Experts
26	09.00-09.25	Hydrogen 4.0: Digitalization, Decentralization, and Decarburization	Dr. Vikas Shinde, Head, Green Hydrogen Project, Aaryans Group of Companies, Pune
27	09.25-09.50	Significance of Industry 4.0 Technologies for Sustainable Development	Dr. Bhavesh Pasi, HOD and Associate Professor, Mechanical Engineering Department, Vishwaniketan's iMEET, Mumbai
28	09.50-10.15	Role of OTFS in Massive MIMO and mm Wave/ THz bands in 6G	Dr. Mandar Bivalkar, Professor, K. J. Somaiya Institute of Technology, Mumbai
29	10.15-10.40	Green Technologies for Responsible Innovation	Dr. Shweta Aggrawal, Professor and Associate Dean, Ahmedabad University
30	10.40-11.05	AI ML Enabled Email Spam Detection	Dr. Vandana Milind Rohokale, Professor and Vice Principal, SITS Narhe, Pune
Tea Break (11.05-11.20)			
31	11.20- 11.45	Blockchain Integration in 5G and 6G Wireless Networks: Opportunities and Challenges	Dr. Jyoti Ramesh Gangane, Professor in ETC Dept, Vishwaniketan's-iMEET, Mumbai
32	11.45-12.10	Smart & Futuristic Infrastructure	Prof. Bharat Gupta, Professor, NIT, Patna
33	12.10-12.35	Comparison between 5G,6G and Bhagwat Gita	Dr. Dhananjay Kumar Singh, Professor, Aarhus University Denmark
34	12.35-01.00	TBD	Dr. Swati Sharma, Kolkata
Lunch (01.00 to 01.30)			
35	01.30-03.00	<p>Panel Discussion: Public Sector & Sustainability</p> <p>Points:</p> <ul style="list-style-type: none"> Smart Governance: Digitization in Public Services Green Tech: Can Digitization Help Save the Planet? Cyber-Security in the Era of Digital Nations 	<p>Panelist:</p> <ol style="list-style-type: none"> 1. Dr. Vikas Shinde, Aaryans Group of Companies, Pune 2. Dr. Bhavesh Pasi, Vishwaniketan's iMEET, Mumbai 3. Dr. Mandar Bivalkar, IIIT Vadodara- ICD Diu 4. Dr. Swati Sharma, Kolkata <p>Moderator: Dr. Vandana Milind Rohokale, SITS Narhe, Pune</p>
Tea Break (03.00- 03.15)			
Valedictory Program (03.15-04.00)			

Paper Presentation Schedule

Time	Track 1	Track 2	Track 3
08.30-09.00	Registration	Registration	Registration
09.00-11.05	Presentations	Presentations	Presentations
11.05-11.20	Tea Break	Tea Break	Tea Break
11.20-01.00	Presentations	Presentations	Presentations
01.00-01.30	Lunch	Lunch	Lunch
01.30-03.00	Presentations	Presentations	Presentations
03.00-03.15	Tea Break	Tea Break	Tea Break
03.15-04.00	Valedictory Program	Valedictory Program	Valedictory Program

DAY 1: 30th October 2025 (Thursday)



Hon. Prof. Ramjee Prasad (Chair, GISFI & Founder President, CTIF Global Capsule, Denmark), Dr. (Mrs.) Sangeeta R. Chougule (Director, AMGOI), Prof. Pravin B. Ghewari (Campus Director, AMGOI), Hon. Col. Prof. Karbhari Vishwanath Kale (Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Maharashtra), Mr. Ravi Dhale (MD, Mayur Steel, Kolhapur), Dr. A. S. Shalke, and Dr. S. S. Patil performing the traditional Lighting of the Lamp to inaugurate the three-day workshop.



Hon. Col. Prof. Karbhari Vishwanath Kale, Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Maharashtra, performing the traditional Lighting of the Lamp to inaugurate the three-day workshop.



Welcome address by Dr. (Mrs.) S.R. Chougule at the International Conference on Integrated Research and Sustainable Development (ICIRSD 2025).



Prof. P. B. Ghewari, Campus Director, AMGOI, Vathar, highlighting the remarkable journey of Shree Balasaheb Mane Shikshan Prasarak Mandal (BMSPM), Ambap.



Felicitation of Hon. Prof. Ramjee Prasad, Chair GISFI and Founder President CTIF Global Capsule, Denmark, on the auspicious hands of Dr. (Mrs.) Sangeeta R. Chougule, Director, AMGOI Vathar.



Felicitation of Hon. Col. Prof. Karbhari Vishwanath Kale, Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Maharashtra, on the auspicious hands of Prof. P.B. Ghewari, Campus Director, AMGOI Vathar.



Felicitation of Hon. Dr. Raman Batra, Managing Director & CEO, YeniAI, Uttar Pradesh, on the auspicious hands of Prof. P.B. Ghewari, Campus Director, AMGOI Vathar.

1. Inaugural Ceremony

The event commenced with the National Anthem, followed by the traditional Lighting of the Lamp, symbolising knowledge, positivity, and enlightenment.

Dr. (Mrs.) Sangeeta R. Chougule, Director, AMGOI, welcomed all dignitaries, delegates, speakers, and participants. She presented an overview of the conference objectives, emphasizing India’s growing role in global digitization and ICT standardization.

Felicitation of Guests

The dignitaries present for the inaugural ceremony were warmly felicitated by the organizing committee as a mark of respect and gratitude. Dr. (Mrs.) Sangeeta R. Chougule, Director, AMGOI, along with the event coordinators, presented floral bouquets and mementoes to the esteemed guests.

The following distinguished personalities were felicitated during the session:

- Prof. Pravin B. Ghewari
Campus Director, AMGOI.

- Dr. (Mrs.) Sangeeta R. Chougule
Director, AMGOI.
- Hon. Prof. Ramjee Prasad
Founder President, CTIF Global Capsule; Founder Chair, GISFI;
Founder Chair/Co-Chair, GWS/WPMC Steering Board; Founder President,
Vishwaniketan.
- Hon. Col. Prof. Karbhari Vishwanath Kale
Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University (DBATU),
Maharashtra, India.
- Dr. Raman Batra
Managing Director & CEO,
Yeni AI, Uttar Pradesh
- Mr. Ravi Dolli
Proprietor, Castco and Managing Director, Mayura Steels Pvt.Ltd, Kolhapur
- Dr. A. S. Shelake
Dean, IQAC, AMGOI, Vathar
- Dr. S. S. Patil
Dean, Academics, AMGOI, Vathar

The felicitation ceremony created a warm and respectful atmosphere, acknowledging the valuable presence and contributions of the distinguished guests. Their participation added immense value to the event and set a positive tone for the proceedings that followed.

During the inaugural session, Prof. Pravin B. Ghewari, Campus Director, AMGOI, delivered the Organization Overview. In his address, he highlighted the institution's commitment to academic excellence, interdisciplinary research, and innovation-driven education. He also emphasized AMGOI's proactive initiatives in fostering global collaborations, promoting quality research, and creating a technologically advanced learning ecosystem. His overview provided the audience with a clear understanding of the institute's vision, achievements, and its role in hosting a prestigious international event such as the GISFI Standardization Meeting and ICIRSD 2025.

Inaugural Address by Dr. (Mrs.) S. R. Chougule
Director, AMGOI



Dr. (Mrs.) S. R. Chougule, Director, AMGOI, delivered the Inaugural Address during the opening session of the 45th GISFI Standardization Series Meeting and International Workshop on “Digitization: Bridging the Present & Future.” In her address, she warmly welcomed all dignitaries, keynote speakers, experts, faculty members, researchers, and participants to the three-day international event.

Dr. Chougule highlighted the growing significance of digitization, standardization, and emerging technologies in shaping the future of education, research, and industry. She emphasized that platforms like GISFI and ICIRSD provide valuable opportunities for academia and industry to collaborate, exchange ideas, and contribute to global technology standards.

She also appreciated the efforts of the organizing committee, faculty coordinators, and student volunteers for their dedication in successfully planning the event. Dr. Chougule encouraged participants to actively engage in the technical sessions, panel discussions, and interactions with experts to gain maximum academic and professional benefit.

Her inaugural speech set a positive and inspiring tone for the workshop and underlined AMGOI’s commitment to promoting research excellence, innovation, and global collaboration in emerging digital technologies.

President's Address by Hon. Prof. Ramjee Prasad

Founder President, CTIF Global Capsule

Founder Chair, GISFI

Founder Chair/Co-Chair, GWS/WPMC Steering Board

Founder President, Vishwaniketan

Former Professor, Department of Business Development and Technology,

Aarhus University, Herning Campus, Denmark



Hon. Prof. Ramjee Prasad delivered an inspiring Opening Message, setting the tone for the 45th GISFI Standardization Series Meeting and the International Workshop. As a globally recognized pioneer in wireless communication, ICT standardization, and next-generation technologies, he emphasized the need for bridging the present and the future through responsible digitization.

He highlighted the transformative potential of 6G, AI-driven ecosystems, cybersecurity frameworks, and sustainable innovations in shaping a digitally empowered society. Prof. Prasad also stressed the importance of global collaboration, people-centric innovation, and multidisciplinary research to build resilient and inclusive digital infrastructures.

His message motivated participants to contribute actively to the development of emerging technologies and to align their research with global standardization efforts, ensuring that India plays a leading role in the future digital world.

Hon. Prof. Ramjee Prasad delivered an inspiring and visionary Opening Message during the inaugural session. As a globally renowned leader in wireless communication, digital technologies, and international standardization, he emphasized the importance of people-centric digitization, ethical innovation, and global cooperation.

Two major announcements were made:

1. Publication of ICIRSD–2025 Proceedings
2. Signing of International MOUs with universities and industries

Keynote Speech by Prof. Dr K. K. Aggarwal

President, South Asian University, New Delhi & Former Chairman, NBA

Honorary Chair Prof. Dr K. K. Aggarwal addressed the gathering online and delivered an enlightening and visionary speech during the 45th GISFI Standardization Series Meeting and International Workshop on “Digitization: Bridging the Present & Future.” Speaking virtually, he emphasized the increasing importance of digital platforms, online collaboration, and virtual learning ecosystems in the post-digital era.

Prof. Aggarwal highlighted how emerging technologies such as AI, 6G communication, immersive learning, and cloud-based education systems are transforming the academic and industrial landscapes. He stressed that online platforms are not just temporary alternatives but have become a permanent and powerful tool for enabling global academic exchange, interdisciplinary research, and standardization dialogues.

He also pointed out the need for quality assurance, continuous accreditation, and robust digital governance to maintain educational excellence in an increasingly virtual environment. His online address encouraged students, researchers, and faculty to embrace digital transformation, collaborate globally, and engage in future-ready research that aligns with evolving international standards.

His speech, though delivered virtually, had a deep impact on all participants and set a strong intellectual tone for the sessions that followed.

**Keynote Speech by Chief Patron Hon. Col. Prof. Karbhari Vishwanath Kale
Vice-Chancellor, Dr Babasaheb Ambedkar Technological University (DBATU),
Maharashtra, India**



(Keynote speech by Chief Patron Hon. Col. Prof. Karbhari Vishwanath Kale, Vice-Chancellor, Dr Babasaheb Ambedkar Technological University, Maharashtra, India, at CTIF Global Capsule, Denmark, during the International Conference on Integrated Research and Sustainable Development (ICIRSD 2025), held jointly with the 45th GISFI Standardization Series Meeting & International Workshop on ‘Digitization: Bridging the Present & Future’)

Hon. Col. Prof. Karbhari Vishwanath Kale, Vice-Chancellor of Dr Babasaheb Ambedkar Technological University (DBATU), delivered an inspiring and visionary speech as the Chief Patron of the event. In his address, he emphasized the need for academic institutions to actively embrace the ongoing wave of digitization, AI-led innovation, research excellence, and sustainable development.

Prof. Kale highlighted the transformative impact of 6G technologies, IoT-enabled systems, and digital governance frameworks on education, industry, and society. He stressed the importance of building strong ecosystems that encourage interdisciplinary research, industry collaboration, skill development, and entrepreneurial thinking among students.

He also emphasized that technological growth must be aligned with ethical values, societal needs, and environmental sustainability, ensuring that digitization benefits all sections of

society. Prof. Kale encouraged students and faculty members to take advantage of opportunities offered by global conferences like GISFI and ICIRSD to enhance their knowledge, contribute to research advancements, and strengthen India's position in global digital innovation.

His speech set a strong, motivational tone for the event and reinforced the vision of building a digitally empowered, future-ready academic environment at both the university and national levels.

Vote of Thanks

Dr. (Mrs.) Seema S. Patil

Convener, ICIRSD-2025, AMGOI

Dr. (Mrs.) Seema S. Patil, Convener of ICIRSD-2025, AMGOI, delivered the Vote of Thanks and expressed heartfelt gratitude to all dignitaries, delegates, speakers, and participants for making the 45th GISFI Standardization Series Meeting and the International Workshop on "Digitization: Bridging the Present & Future" a grand success.

She extended her sincere appreciation to Hon. Prof. Ramjee Prasad, global experts, keynote speakers, and distinguished academicians for sharing their valuable insights on ICT standardization, 6G technologies, AI, and sustainable digital transformation. She also acknowledged the support and guidance of Hon. Col. Prof. Karbhari Vishwanath Kale, Vice Chancellor, DBATU, and other esteemed guests.

Dr Patil expressed gratitude to the management of AMGOI, including the Director, Campus Director, Deans, Heads of Departments, faculty coordinators, and all organizing committee members for their dedicated efforts. She also appreciated the contribution of student volunteers whose commitment ensured the smooth execution of the three-day program.

She concluded the Vote of Thanks by thanking all attendees for their participation and by expressing hope that the discussions, research exchanges, and collaborative interactions during the event would contribute significantly to future innovations and academic growth.

His speech served as a strong motivation for the audience, offering a clear vision of how AI-driven 6G technologies will revolutionize industries, empower digital societies, and contribute to a smarter and more sustainable future.

Inspirational speeches by Dr Raman Batra, Prof. K. K. Aggarwal, and Hon. Col. Prof. Karbhari V. Kale addressed the rapid evolution of digital technologies and the necessity of ethical, inclusive digitization frameworks.

The session concluded with a Presidential Address by Hon. Shri Vijaysinh Mane, followed by a Vote of Thanks by Dr Seema S. Patil.

Keynote Speech by Dr Raman Batra

Managing Director & CEO, Yeni AI, Uttar Pradesh

Topic: Immersive AI in Education



Dr Raman Batra, Managing Director and CEO of Yeni AI, Uttar Pradesh, delivered an insightful and forward-thinking speech on the emerging role of Immersive Artificial Intelligence (AI) in Education. He explained how immersive AI technologies such as virtual reality (VR), augmented reality (AR), mixed reality (MR), intelligent tutoring systems, and simulation-based learning are transforming traditional teaching methods and creating highly engaging learning environments.

Dr Batra highlighted that immersive AI enables personalized learning pathways, real-time feedback, adaptive assessments, and interactive content delivery that cater to individual learning needs. He emphasized that such technologies can significantly enhance conceptual understanding, skill development, creativity, and experiential learning, especially in engineering, medical, and technical education.

He also discussed the integration of immersive AI with future technologies like 6 G-enabled ultra-fast communication networks, which will allow seamless streaming of high-quality immersive content, remote laboratories, holographic classrooms, and smart educational ecosystems.

Dr Batra stressed the importance of preparing educators and institutions for this transformation by investing in digital infrastructure, AI literacy, faculty training, and ethical frameworks to ensure responsible and inclusive use of these technologies.

His speech inspired the audience to explore the vast potential of immersive AI and encouraged academic institutions to adopt innovative digital tools that will shape the future of education.

Keynote Speech by Prof. Dr Sibaram Khara

Vice Chancellor, Sharda University, Uttar Pradesh

Topic: “6G: A Game Changer for Holistic Global Development”



Prof. Dr Sibaram Khara, Vice Chancellor of Sharda University, Uttar Pradesh, delivered a visionary and highly engaging session on “6G: A Game Changer for Holistic Global Development.” He highlighted that 6G technology is not merely an upgrade over 5G but a transformative force that will redefine communication, industry, governance, and society at large.

Dr Khara explained that 6G aims to provide ultra-high-speed connectivity, sub-millisecond latency, AI-driven autonomous networks, and seamless integration of terrestrial and non-terrestrial communication systems, including satellites, UAVs, and deep-space networks. These advancements will create a unified global digital fabric enabling uninterrupted connectivity across urban, rural, and remote geographies.

He emphasized key pillars of 6G-driven development:

- Holographic communication and immersive experiences
- AI-native communication systems
- Next-generation healthcare services (tele-surgery, remote diagnostics)
- Precision agriculture and smart rural development

- Intelligent transportation and autonomous mobility
- Climate monitoring and disaster management systems

Dr Khara underscored that 6G will play a crucial role in bridging social and economic gaps by enabling digital inclusion, global service delivery, and smart economic ecosystems. He stressed the importance of interdisciplinary research, international collaboration, and flexible regulatory policies for realizing the full potential of 6G.

His session concluded with a strong message: 6G is not just a technological revolution, but a catalyst for holistic global development, touching every aspect of human life from education and health to industry, environment, and governance.

Keynote Speech by Mr Vivek Ahuja

Narrative Architect Urban Technologist Experiential Built Environment Expert

Topic: “Bridging the Present and Future: An Architectural Framework for Value-Driven Digital Transformation”

Mr. Vivek Ahuja, a renowned Narrative Architect, Urban Technologist, and Experiential Built Environment Expert, delivered an impactful online speech on the theme “Bridging the Present and Future: An Architectural Framework for Value-Driven Digital Transformation.”

In his virtual address, he emphasized the need for creating human-centric, resilient, and future-ready digital environments that integrate technology seamlessly with urban and architectural ecosystems. He explained how digital transformation should not only focus on technological upgrades but must also be anchored in values, cultural context, user experience, and long-term societal impact.

Mr. Ahuja highlighted the importance of designing intelligent spatial systems, smart cities, and adaptive infrastructures that utilize AI, IoT, immersive reality, and data-driven planning. According to him, the future lies in built environments that respond dynamically to human behaviour, sustainability goals, and evolving digital needs.

He also presented an architectural framework that connects today’s digital capabilities with future technological aspirations integrating narrative design, digital twins, spatial analytics, and immersive interactions to create meaningful and value-driven transformation.

His online speech provided the audience with a powerful perspective on the convergence of architecture, technology, digital culture, and user-centred design, inspiring researchers, students, and professionals to rethink the future of digital ecosystems.

Keynote Speech by Dr Manesh B. Kokare

Principal & Director, SGGSIET, Nanded

Topic: “Artificial Intelligence: Applications, Challenges, and Opportunities”



Dr Manesh B. Kokare, Principal and Director of SGGSIET, Nanded, delivered an insightful and highly engaging session on the theme “Artificial Intelligence: Applications, Challenges, and Opportunities.” His talk highlighted the rapid evolution of AI and its transformative impact across multiple sectors, including healthcare, education, agriculture, industry, transportation, cybersecurity, and smart governance.

He explained how AI-driven technologies such as machine learning, deep learning, computer vision, natural language processing, and robotics are revolutionizing modern systems by enabling automation, precision, and enhanced decision-making. Dr Kokare showcased real-world applications where AI is creating significant value, ranging from predictive healthcare analytics to intelligent manufacturing and adaptive learning platforms.

At the same time, he addressed the critical challenges associated with AI adoption, such as data privacy, ethical concerns, algorithmic bias, computational limitations, skill gaps, and the need for regulatory frameworks. He emphasized that responsible AI deployment requires transparency, fairness, inclusiveness, and human oversight.

Dr Kokare concluded by highlighting the immense opportunities for researchers, industry professionals, and students. He encouraged institutions to invest in AI research labs, interdisciplinary collaborations, faculty development, and innovation-driven projects to prepare the next generation for a digitally empowered future.

His session provided the audience with a balanced perspective showcasing both the potential and responsibilities associated with AI, and inspiring them to contribute meaningfully to the rapidly evolving digital ecosystem.

Keynote Speech by Dr Alben Mihovska

Denmark

Topic: “Multi-Agent System Architecture for Energy-Aware Resource Orchestration in 6G RAN”

Dr Alben Mihovska, an internationally renowned researcher from Denmark, delivered a highly informative online speech on the topic “Multi-Agent System Architecture for Energy-Aware Resource Orchestration in 6G Radio Access Networks (RAN).” Speaking virtually, she provided deep insights into how next-generation wireless networks can be optimized using intelligent, autonomous, and energy-efficient multi-agent frameworks.

Dr Mihovska explained that as 6G networks evolve toward ultra-dense, highly heterogeneous, and performance-intensive architectures, traditional resource management strategies will become insufficient. To overcome these limitations, she presented a multi-agent system (MAS) approach in which distributed intelligent agents collaborate to manage spectrum, power, and network resources dynamically and efficiently.

She highlighted how these agents utilize AI, machine learning, real-time sensing, and context-aware decision-making to orchestrate resources autonomously. This enables improved energy efficiency, reduced network congestion, enhanced QoS/QoE, and better adaptability to varying traffic demands and environmental conditions.

Dr Mihovska also emphasized the importance of energy-aware orchestration, which is crucial for building sustainable 6G networks that reduce carbon footprint while supporting massive device connectivity, ultra-reliable low-latency communication (URLLC), and mission-critical applications.

Her online session provided participants with a comprehensive understanding of the future of AI-driven 6G RAN, showcasing how multi-agent systems will play a pivotal role in enabling intelligent, green, and autonomous network operations.

Keynote Speech by Dr Satya N. Gupta

Professor of Practice, South Asian University, New Delhi

Topic: “DeWi Blockchain-Based Decentralized Wi-Fi Hotspots Network as Phygital Public Good”



Dr Satya N. Gupta, Professor of Practice at South Asian University, New Delhi, delivered a compelling and insightful session on the innovative concept of DeWi (Decentralized Wireless) and the use of Blockchain-Based Decentralized Wi-Fi Hotspot Networks as a “Phygital” public good.

In his talk, Dr Gupta explained how traditional Wi-Fi access models are limited by centralized control, scalability issues, and high infrastructure costs. To address these challenges, he introduced the DeWi framework, which leverages blockchain technology, token-based incentives, and community-driven infrastructure to create a decentralized network of Wi-Fi hotspots.

He highlighted that DeWi enables citizens, communities, and small entrepreneurs to contribute Wi-Fi access points and earn rewards, thereby democratizing internet access and reducing dependency on centralized service providers. This creates a “phygital” ecosystem, where digital connectivity is enabled through physical community-driven nodes bridging physical spaces and digital access seamlessly.

Dr Gupta also emphasized the potential of DeWi for:

- Rural connectivity and digital inclusion
- Smart cities and public service delivery
- Secure, transparent, and tamper-proof access management
- Low-cost, scalable digital infrastructure

He showcased how DeWi aligns with national digital transformation goals and can play a crucial role in expanding affordable, secure, and community-owned internet connectivity, especially in underserved regions.

His session offered a futuristic and socially impactful perspective on decentralized connectivity solutions, inspiring participants to explore blockchain-enabled network models for inclusive digital development.

Panel Discussion: Technology, Innovation, Society & Ethics



A dynamic and thought-provoking panel discussion on “Technology, Innovation, Society & Ethics” was conducted, focusing on the responsibilities and challenges of a rapidly digitizing world. The session brought together eminent experts who shared diverse insights on emerging technologies and their societal impact.

The panel explored crucial topics, including:

- AI and Automation: Enablers or Replacers of Human Potential?
- The Role of Blockchain in a Digitally Secure Future
- Digital Twins and the Future of Smart Cities
- Quantum Computing: Next Frontier or Distant Dream?
- Digital Inclusion: Closing the Connectivity Gap

- Ethics in AI: Can Machines Be Fair?
- Data Privacy in a Hyper-Connected World
- Digitization and Mental Health: Finding a Balance

The discussion encouraged participants to reflect on how technological growth must be aligned with ethical principles, inclusivity, and human-centred development.

Panelists

1. Dr Debu Nayak, Ericsson, New Delhi
2. Dr Manesh B. Kokare, Principal & Director, SGGSIET, Nanded
3. Dr Alben Mihovska, Denmark
4. Mr Vivek Ahuja, Narrative Architect, Urban Technologist, Experiential Built Environment Expert

Moderator

Dr Sunil Kr. Pandey, Director, Institute of Technology and Science, Mohan Nagar. The discussion offered valuable perspectives on the future of digital transformation and the need for responsible, ethical, and inclusive technological progress.

Day 02: 31st October 2025 (Friday)

Keynote Speech by Mr Dinesh Chand Sharma

Director EU Project SESEI, New Delhi

Topic: “EU & India Partnership: Role of Standards in Building Digital Infrastructure”



Mr Dinesh Chand Sharma, Director of the EU Project SESEI, New Delhi, delivered a highly informative online session on the topic “EU & India Partnership: Role of Standards in Building Digital Infrastructure.” His talk highlighted the growing strategic collaboration between the European Union (EU) and India in shaping globally harmonized digital standards.

He emphasized that modern digital infrastructure covering areas such as 5G/6G communication systems, cybersecurity frameworks, IoT, smart cities, cloud services, and data protection requires strong, unified, and forward-looking standards to ensure interoperability, security, and scalability.

Mr Sharma explained the importance of:

- Standard harmonization between EU and India
- Global reference frameworks for digital transformation
- Inclusive policy development to support innovation
- Ensuring cybersecurity and data privacy through standard-driven governance
- Facilitating industry academia collaboration to develop next-generation standards

He also highlighted how EU India cooperation is accelerating advancements in digital trade, research collaboration, sustainability, and cross-border digital services. His online presentation gave participants a comprehensive understanding of how global standards is crucial for building robust, trusted, and future-ready digital ecosystems.

Keynote Speech by Dr Pradnya Patil

Assistant Professor, Symbiosis Artificial Intelligence Institute, Pune

Topic: “Decentralized Finance and Beyond: Blockchain for Secure, Compliant Systems”



Dr Pradnya Patil, Assistant Professor at the Symbiosis Artificial Intelligence Institute, Pune, delivered a highly insightful session on the topic “Decentralized Finance and Beyond: Blockchain for Secure, Compliant Systems.” Her talk highlighted the transformative potential of blockchain technology in creating decentralized, transparent, and tamper-proof financial ecosystems.

She explained how Decentralized Finance (DeFi) eliminates traditional intermediaries by enabling peer-to-peer financial services such as payments, lending, asset management, and smart contracts ensuring faster, more secure, and cost-effective transactions. Dr Patil emphasized that blockchain’s inherent features including immutability, cryptographic security, distributed consensus, and programmability make it ideally suited for building secure digital infrastructures.

Beyond finance, she also discussed blockchain applications in:

- Supply chain traceability
- Digital identity management
- Regulatory compliance and auditing
- Healthcare data protection
- Secure IoT ecosystems

Dr Patil highlighted the need for robust regulatory frameworks, compliance mechanisms, and ethical guidelines to ensure responsible blockchain adoption. She stressed that integration with

emerging technologies and future standards will be essential for scaling secure digital ecosystems in India.

Her session provided participants with a clear understanding of blockchain's role in shaping trustworthy, compliant, and future-ready systems, inspiring researchers and students to explore new directions in decentralized technologies.

Keynote Speech by Dr Komal Jadhav, KITCOE, Kolhapur

Topic: “Intelligent Video Surveillance Systems for Achieving Sustainable Development

Goals: A Technological Perspective”



Dr Komal Jadhav from KITCOE, Kolhapur, delivered an insightful and highly relevant session on the topic “Intelligent Video Surveillance Systems for Achieving Sustainable Development Goals (SDGs): A Technological Perspective.” Her talk focused on how modern AI-powered surveillance systems are playing a crucial role in ensuring safety, sustainability, and efficient resource management in both urban and rural environments.

She explained that advancements in technologies such as computer vision, deep learning, smart sensors, edge computing, and IoT have enabled surveillance systems to evolve from basic monitoring tools into intelligent, automated, and context-aware solutions. These systems contribute significantly to several SDGs, including:

- SDG 11 – Sustainable Cities and Communities
- SDG 9 – Industry, Innovation, and Infrastructure
- SDG 16 – Peace, Justice, and Strong Institutions
- SDG 3 – Good Health and Well-being

Dr Jadhav highlighted the role of intelligent surveillance in crime prevention, traffic management, disaster response, crowd control, environmental monitoring, and public health safety. She emphasized that with proper design and deployment, these systems can strengthen public security while supporting sustainable city planning and governance.

She also discussed the importance of addressing challenges related to data privacy, ethical use of surveillance, system accuracy, and responsible AI governance to ensure that technology benefits society without compromising individual rights.

Her session provided participants with a forward-looking technological perspective, demonstrating how AI-enabled surveillance can meaningfully contribute to a safer, smarter, and more sustainable future.

Keynote Speech by Mr Kishore K. Thakur, ITS Officer, Hyderabad

Topic: “Cyber Awareness”



Mr Kishore K. Thakur, an experienced ITS Officer from Hyderabad, delivered an informative and highly relevant session on Cyber Awareness. His talk emphasized the growing importance of cybersecurity in an era where digital interactions, online transactions, and data-driven systems are deeply integrated into everyday life.

Mr Thakur explained the various forms of cyber threats, including phishing, ransomware, identity theft, malware attacks, data breaches, and social engineering techniques. He highlighted how cybercriminals increasingly exploit human behaviour, weak passwords, unsecured networks, and a lack of digital hygiene to gain unauthorized access to personal and organizational information.

He stressed the need for:

- Strong password management
- Multi-factor authentication (MFA)
- Safe browsing practices
- Email and social media vigilance
- Secure financial transactions
- Awareness of digital fraud and online scams

Mr Thakur also discussed the critical role of cyber hygiene, proactive security measures, and digital literacy in protecting users from cyber threats. He highlighted the importance of reporting incidents promptly and following proper cybersecurity protocols within organizations.

His session helped participants understand the seriousness of digital risks and empowered them with practical knowledge to stay protected in an increasingly hyper-connected environment.

Keynote Speech by Dr Uttam Kolekar

Principal, APSIT, Thane

Topic: “Quality of Service in Mobile Ad Hoc Networks (MANET)”



Dr Uttam Kolekar, Principal of APSIT, Thane, delivered a highly informative and technically rich session on “Quality of Service (QoS) in Mobile Ad Hoc Networks (MANET).” His talk focused on the unique challenges and essential considerations associated with providing reliable communication in decentralized and infrastructure-less wireless networks.

Dr Kolekar explained that MANETs comprising mobile nodes that communicate directly without fixed infrastructure face significant issues such as dynamic topology changes, limited bandwidth, high latency, congestion, node mobility, and security vulnerabilities. Due to these

factors, ensuring Quality of Service (QoS) becomes a critical requirement for effective network performance.

He discussed key QoS parameters, including:

- Throughput
- End-to-end delay
- Packet delivery ratio (PDR)
- Jitter
- Network reliability
- Energy efficiency

Dr Kolekar highlighted various routing protocols designed for MANETs, such as AODV, DSR, OLSR, and TORA, explaining their relevance in achieving QoS guarantees in different application scenarios. He also elaborated on modern approaches incorporating machine learning, cross-layer optimization, and adaptive routing to enhance network performance under dynamic conditions.

His session underscored the importance of QoS in mission-critical applications like military communication, disaster response, emergency services, vehicular networks, and IoT-driven systems. Participants gained a deeper understanding of how intelligent routing strategies and network optimization techniques can significantly improve the robustness and efficiency of MANETs.

Keynote Speech by Dr Pradeep Mane

Principal, AISSMS IOIT, Pune

Topic: “NEP for Enhanced Research Quality”



Dr Pradeep Mane, Principal of AISSMS IOIT, Pune, delivered an insightful and motivating session on the theme “NEP for Enhanced Research Quality.” His talk highlighted the transformative reforms introduced by the National Education Policy (NEP) 2020, emphasizing their impact on strengthening India’s research ecosystem and academic excellence.

Dr Mane explained that NEP places strong emphasis on multidisciplinary learning, innovation-driven education, collaborative research culture, and advanced skill development, all of which are crucial for enhancing research quality in higher education institutions. He elaborated on the importance of creating research-oriented environments through state-of-the-art laboratories, incubation centers, and industry partnerships.

Key elements he discussed included:

- Promoting research at undergraduate level
- Encouraging interdisciplinary projects and problem-solving approaches
- Strengthening collaborations with industry and global institutions
- Developing research aptitude through flexible curriculum design
- Integrating digital tools, AI, and emerging technologies in research
- Enhancing faculty training and research mentorship programs

Dr Mane also emphasized the need for institutions to adopt outcome-based education (OBE), follow quality benchmarks, and build strong academic frameworks aligned with international standards. He highlighted how NEP encourages innovation, entrepreneurship, and ethical research practices, positioning India for global leadership in science and technology.

His session inspired faculty members, researchers, and students to leverage NEP’s reforms to advance impactful research, foster creativity, and contribute to national development through quality-driven academic practices.

Keynote Speech by Dr Dnyaneshwar Mantri

Professor, SIT, Lonavala

Topic: “Role of NGN in Enabling Digital Transformations for Rural Upliftment in Digitizing Rural India”

Dr Dnyaneshwar Mantri, Professor at SIT, Lonavala, delivered an insightful and impactful session on the topic “Role of NGN in Enabling Digital Transformations for Rural Upliftment in Digitizing Rural India.” His address focused on the transformative potential of Next Generation Networks (NGN) in bridging the digital divide and accelerating socio-economic development in rural regions.

He explained that NGN built on all-IP architecture, high-speed connectivity, interoperability, and intelligent network management can revolutionize digital access in remote and underserved areas. By enabling a reliable communication infrastructure, NGN supports a wide range of services, including e-governance, e-healthcare, digital education, agricultural technologies, financial inclusion, and rural entrepreneurship.



Dr Mantri highlighted key advantages of NGN for rural India, such as:

- Enhanced connectivity and broadband penetration
- Support for IoT-based smart agriculture
- Real-time access to government and public services
- Affordable digital solutions for rural communities
- Improved disaster management and emergency communication

He emphasized that NGN is not just a technological upgrade but a catalyst for social empowerment, enabling rural citizens to participate actively in India's digital transformation journey. He also discussed the need for policy support, infrastructure development, digital literacy programs, and public-private partnerships to successfully implement NGN-based solutions in rural regions.

His session offered a visionary perspective on how robust digital networks can contribute to inclusive growth, uplift rural livelihoods, and build a digitally empowered, equitable, and sustainable rural India.

Keynote Speech by Mr Amit Deshmukh

Director, Global Projects, New Delhi

Topic: “Comprehensive Forensic Services for the Legal Sector”



Mr Amit Deshmukh, Director of Global Projects, New Delhi, delivered an insightful and highly informative session on “Comprehensive Forensic Services for the Legal Sector.” His talk highlighted the critical role of modern forensic science in strengthening the judicial system and ensuring accuracy, transparency, and reliability in legal processes.

He explained that today’s legal sector increasingly relies on a wide spectrum of forensic services, including:

- Digital forensics
- Cyber forensic investigations
- Document and handwriting analysis
- Forensic accounting and fraud detection
- Audio–video authentication
- Crime scene analysis and reconstruction
- Mobile and network forensics

Mr Deshmukh emphasized how these services support evidence-based decision-making, help detect cybercrimes, prevent data manipulation, and aid in resolving complex legal disputes. He noted that with the rise of digital transactions, online communication, and cyber-enabled offences, forensic capabilities have become indispensable for maintaining justice and accountability.

He also highlighted the need for:

- Advanced forensic laboratories

- Skilled professionals and certified experts
- Standardized procedures and chain-of-custody protocols
- Collaboration between law enforcement, judiciary, and technology experts
- Awareness and training for legal professionals

Mr Deshmukh concluded by stressing that comprehensive forensic services not only support the judiciary but also enhance public trust in the legal system by ensuring that the truth is established through accurate scientific analysis.

Keynote Speech by Dr Shivprasad Pandurang Patil

Principal, NBNSTIC, Pune

Topic: “Digital Wellness”



Dr Shivprasad Pandurang Patil, Principal of NBNSTIC, Pune, delivered an insightful and enlightening session on “Digital Wellness.” His talk focused on the importance of maintaining a healthy and balanced relationship with digital technologies in today’s hyper-connected world. He explained that although digital tools, online platforms, and smart devices have significantly enhanced our productivity, learning, and connectivity, excessive or unmindful usage can lead to physical, mental, emotional, and social challenges. Dr Patil highlighted common issues associated with digital overuse, such as:

- Digital fatigue and screen addiction
- Stress and anxiety linked to constant notifications
- Sleep disturbances due to prolonged screen time
- Reduced attention span and information overload

- Social isolation despite online connectivity

He emphasized the concept of Digital Wellness, which promotes mindful and responsible use of technology. Key strategies he discussed include:

- Setting screen-time boundaries
- Taking regular digital breaks (micro-breaks)
- Practicing cyber-hygiene and safe digital habits
- Maintaining digital physical life balance
- Engaging in offline activities to support mental well-being
- Using technology intentionally rather than habitually

Dr Patil also highlighted the role of institutions in promoting digital well-being through awareness programs, digital literacy initiatives, and healthy usage guidelines for students and faculty.

His session encouraged participants to adopt healthier digital habits, understand the psychological impact of constant connectivity, and work towards creating a balanced, safe, and mentally healthy digital lifestyle.

Keynote Speech by Mr Ravi Kumar, Singapore

Topic: “Evolution of Radio Access Network & Impact of ORAN in Converged Terrestrial and Non-Terrestrial Networks”

Mr Ravi Kumar from Singapore delivered a highly technical and forward-looking online session on the topic “Evolution of Radio Access Network & Impact of ORAN in Converged Terrestrial and Non-Terrestrial Networks.” His talk provided a comprehensive overview of how modern communication networks are transitioning towards more open, intelligent, and interoperable architectures.

He explained the historical evolution of the Radio Access Network (RAN) from traditional closed, proprietary systems to the emerging Open RAN (ORAN) model, which promotes openness, modularity, vendor diversity, and innovation. ORAN, he noted, is shaping the future of global telecom by enabling:

- Interoperable multi-vendor environments
- AI-driven network optimization
- Reduced operational costs
- Enhanced scalability and flexibility

Mr Kumar highlighted that the convergence of terrestrial networks (5G/6G) with non-terrestrial networks (NTN) such as satellite communication, HAPS (High Altitude Platform Systems),

UAV networks, and maritime connectivity is essential for building a truly global, continuous, and universal communication ecosystem.

He emphasized how O-RAN plays a critical role in enabling this convergence by supporting:

- Seamless integration between terrestrial and satellite systems
- Dynamic spectrum sharing and intelligent orchestration
- Low-latency, ultra-reliable communication
- Global coverage for remote and underserved areas

His online talk offered participants a clear understanding of how ORAN will revolutionize future communication networks, enabling hyper-connectivity, expanding digital inclusion, and supporting mission-critical applications across terrestrial and space-based platforms.

Keynote Speech by Dr Sriganesh K. Rao

Techno Business Strategist, Bangalore

Topic: “Design Infrastructure Support for Non-DLI Recipients”



Dr Sriganesh K. Rao delivered a concise and impactful session on designing infrastructure support for individuals and institutions not covered under Digital Literacy Initiatives (DLI). He highlighted the need for affordable digital devices, reliable connectivity, community digital centers, cloud-based platforms, and basic digital literacy training to ensure inclusive digital participation. Dr Rao emphasized that supporting non-DLI recipients is essential for bridging the digital divide and enabling equal access to education, services, and opportunities in a rapidly digitizing society.

Panel Discussion: Business & Industry

- The Future of Work in a Digital Economy
- Digital Transformation in Traditional Industries: Successes and Struggles
- From Brick-and-Mortar to Digital-First: The New Customer Journey
- Data-Driven Decision-Making: Where Are We Headed?

Panellists Business & Industry Panel

1. Dr Satya N. Gupta
Professor of Practice, South Asian University, New Delhi
2. Mr Kishore K. Thakur
Hyderabad
3. Dr Dnyaneshwar Mantri
Professor, SIT, Lonavala
4. Dr Kumud Saxena
Head, Department of CSE, NIET Greater Noida, Uttar Pradesh
5. Dr Sriganesh K. Rao
Techno-Business Strategist, Bangalore
Moderator
6. Dr. Pradeep Mane
Principal, AISSMS IOIT, Pune

Day 03:01st November 2025 (Saturday)

Keynote Speech by Dr Vikas Shinde

Head, Green Hydrogen Project, Aaryans Group of Companies, Pune

Topic: “Hydrogen 4.0: Digitalization, Decentralization, and Decarbonization”

Dr Vikas Shinde, Head of the Green Hydrogen Project at Aaryans Group of Companies, Pune, delivered an enlightening online session on “Hydrogen 4.0: Digitalization, Decentralization, and Decarbonization.” He explained how Hydrogen 4.0 represents the next phase of clean energy transformation, integrating digital technologies, decentralized energy systems, and sustainability-focused innovations.

He discussed how digital tools such as AI, IoT, digital twins, advanced sensors, and data analytics are revolutionizing hydrogen production, storage, and distribution. Dr Shinde emphasized the importance of decentralizing hydrogen generation through community-level production units, renewable-powered electrolyzers, and smart grid integration.

A major part of his talk focused on decarbonization, highlighting hydrogen’s potential to significantly reduce emissions across various industries, including transportation, manufacturing, and energy generation. He also discussed policy frameworks, safety standards, and future opportunities for India in becoming a global hub for green hydrogen.

His session gave participants a futuristic perspective on how Hydrogen 4.0 will support a cleaner, smarter, and digitally driven energy ecosystem, contributing to national and global sustainability goals.

Keynote Speech by Dr Kumud Saxena

Dean, SCSIT, NIET, Greater Noida

Topic: “Generative AI for Responsible Innovation and Sustainable Growth”

Dr Kumud Saxena, Dean of SCSIT at NIET, Greater Noida, delivered an insightful online session on “Generative AI for Responsible Innovation and Sustainable Growth.” She highlighted the rapid evolution of Generative AI (GenAI) and its transformative impact across sectors, including education, industry, healthcare, finance, and research.

Dr Saxena explained how GenAI models, such as large language models, generative design tools, synthetic data engines, and creative AI platforms, are enabling innovation by automating content creation, enhancing decision-making, accelerating product development, and supporting data-driven research. She emphasized that while GenAI provides immense

opportunities, it must be developed and deployed responsibly, with a strong focus on ethics, transparency, fairness, and societal impact.

She outlined the importance of:

- Ethical AI governance and accountability
- Bias mitigation and fairness in AI-generated outputs
- Explainability and transparency in algorithmic decisions
- Sustainable computational practices and energy-efficient AI models
- Using GenAI for environmental, social, and economic development goals

Dr Saxena emphasized that responsible GenAI can significantly contribute to sustainable growth, whether through climate modeling, precision agriculture, smart manufacturing, or intelligent public services. She encouraged students and researchers to explore GenAI not only as a technological tool but as a medium for creating socially beneficial, inclusive, and sustainable innovations.

Her online session provided a balanced blend of technological depth and ethical awareness, inspiring the audience to engage with Generative AI in a thoughtful and future-ready manner.

Keynote Speech by Dr Reena Disawal

Professor, PIEMR, Indore

Topic: “Industry 5.0: Transforming Manufacturing with IoT”

Dr Reena Disawal, Professor at PIEMR, Indore, delivered an insightful and future-oriented session on “Industry 5.0: Transforming Manufacturing with IoT.” She explained how Industry 5.0 represents the next evolutionary phase of industrial transformation, focusing on human machine collaboration, hyper-personalisation, and intelligent automation supported by the Internet of Things (IoT).

She highlighted that while Industry 4.0 emphasized automation and smart technologies, Industry 5.0 brings humans back to the center, combining human creativity with the precision of intelligent machines. IoT plays a pivotal role by enabling:

- Real-time data collection and monitoring
- Smart sensors and interconnected devices
- Predictive maintenance
- Digital twins for manufacturing optimization
- Seamless machine-to-machine communication

Dr Disawal explained how IoT-driven Industry 5.0 can create sustainable, efficient, and resilient manufacturing processes, reducing operational costs, improving product

customisation, and enhancing workplace safety. She also emphasized the importance of cybersecurity, interoperability standards, and workforce skill enhancement to fully implement Industry 5.0 solutions.

Her session provided participants with a clear understanding of how IoT-enabled technologies will redefine the future of manufacturing, making it more innovative, human-centric, and sustainable.

Keynote Speech by Dr Mandar Bivalkar

Professor, K. J. Somaiya Institute of Technology, Mumbai

Topic: “Role of OTFS in Massive MIMO and mm Wave/THz Bands in 6G”



Dr Mandar Bivalkar, Professor at K. J. Somaiya Institute of Technology, Mumbai, delivered a highly technical and informative session on the “Role of Orthogonal Time Frequency Space (OTFS) modulation in Massive MIMO and mmWave/THz bands for 6G.” His talk focused on how OTFS is emerging as a breakthrough waveform capable of supporting the demanding requirements of future 6G wireless communication systems.

Dr Bivalkar explained that traditional waveforms such as OFDM often face limitations in high-mobility environments, high-frequency bands, and dense multipath conditions. OTFS addresses these challenges by mapping information in the delay Doppler domain, offering superior performance in dynamic and complex wireless environments.

He highlighted how OTFS integrates seamlessly with Massive MIMO, enabling:

- Higher spectral efficiency
- Improved channel estimation accuracy
- Better handling of Doppler shifts
- Reliable communication in high-speed mobility scenarios

Additionally, Dr Bivalkar discussed how the combination of OTFS with mm Wave and THz frequency bands key components of 6G, can significantly enhance data rates, reduce latency, and enable advanced applications such as:

- Holographic communication
- Ultra-reliable low-latency communication (URLLC)
- AI-driven connected systems
- High-precision sensing and localization

He emphasized that OTFS will be a foundational technology in achieving the full potential of 6G, especially in environments requiring ultra-high-speed, mobility resilience, and robust connectivity.

His session provided participants with deep insights into future communication technologies and the critical role OTFS will play in shaping next-generation wireless networks.

Keynote Speech by Dr Vandana Milind Rohokale

Professor and Vice Principal, SITS Narhe, Pune

Topic: “AI/ML Enabled Email Spam Detection”

Dr Vandana Milind Rohokale, Professor and Vice Principal at SITS Narhe, Pune, delivered an insightful online session on “AI/ML Enabled Email Spam Detection.” She explained how artificial intelligence and machine learning are transforming cybersecurity by making email communication more secure, intelligent, and user-friendly.

Dr Rohokale highlighted the growing challenge of spam, phishing, malware-infected emails, and social engineering attacks. She emphasized that traditional rule-based filters are no longer sufficient due to the evolving complexity and volume of email threats. AI/ML-based systems offer a more efficient and adaptive solution through:

- Supervised and unsupervised ML algorithms
- Natural Language Processing (NLP) for text analysis
- Pattern recognition and feature extraction
- Real-time classification of spam vs. legitimate emails
- Continuous learning from user behaviour and new threats

She discussed popular algorithms such as Naïve Bayes, SVM, Random Forest, Deep Learning models, and how they significantly improve detection accuracy. Dr Rohokale also emphasized the importance of dataset quality, feature engineering, and model training for achieving reliable spam filtering systems.

Her session concluded with real-world applications of AI/ML in email security, including automated threat intelligence, adaptive filtering, and enterprise-level email protection tools. The talk provided participants with a clear understanding of how AI-driven approaches are essential for combating modern email threats and ensuring safe digital communication.

Keynote Speech by Dr Jyoti Ramesh Gangane

Professor, ETC Department, Vishwaniketan's iMEET, Mumbai

Topic: "Blockchain Integration in 5G and 6G Wireless Networks: Opportunities and Challenges"

Dr Jyoti Ramesh Gangane, Professor in the ETC Department at Vishwaniketan's iMEET, Mumbai, delivered an insightful online session on "Blockchain Integration in 5G and 6G Wireless Networks: Opportunities and Challenges." She highlighted how blockchain, a decentralized and tamper-proof technology, is becoming a critical element in enhancing the security, reliability, and transparency of next-generation wireless networks.

Dr Gangane explained that as 5G and 6G networks expand to support massive IoT, autonomous systems, smart cities, and ultra-reliable communication, the volume of data and the number of connected devices increase dramatically. Blockchain helps address key network challenges by enabling:

- Decentralized security frameworks
- Trusted device authentication
- Secure data sharing across distributed nodes
- Immutable logs for network transactions and operations
- Smart contracts for automated network management

She further emphasized how blockchain can support use cases such as spectrum management, secure handovers, fraud prevention, and data integrity in highly dynamic 5G/6G environments. Additionally, she discussed the role of blockchain in enabling edge computing, network slicing, and resource management with higher efficiency and trust.

However, Dr Gangane also pointed out several challenges such as scalability concerns, high computational requirements, latency issues, and integration complexity within ultra-fast wireless networks. She stressed the need for optimized blockchain frameworks and lightweight consensus mechanisms suitable for 5G/6G architectures.

Her session provided participants with a balanced understanding of the immense opportunities blockchain brings to wireless communication and the technical challenges that must be addressed to fully unlock its potential in future network ecosystems.

Keynote Speech by Prof. Bharat Gupta

Professor, NIT Patna

Topic: “Smart & Futuristic Infrastructure”



Prof. Bharat Gupta, Professor at NIT Patna, delivered an informative and forward-looking online session on “Smart & Futuristic Infrastructure.” He emphasized that the future of global development relies on intelligent, sustainable, and technologically integrated infrastructure capable of meeting the demands of rapidly urbanizing societies.

Prof. Gupta explained that smart infrastructure leverages advanced digital technologies such as IoT, AI, data analytics, cloud platforms, digital twins, and cyber-physical systems to create efficient, resilient, and adaptive environments. He highlighted the shift from traditional infrastructure to futuristic systems that are:

- Data-driven
- Energy-efficient
- Environmentally sustainable
- Connected and automated
- Human-centric and inclusive

He discussed key components of futuristic infrastructure including smart transportation networks, intelligent utilities, green buildings, renewable energy integration, autonomous mobility, and urban digital governance systems. Prof. Gupta also addressed the importance of cybersecurity and standards for ensuring safe and interoperable infrastructure deployment.

He emphasized that building smart and futuristic infrastructure is essential for achieving sustainability goals, enhancing quality of life, and enabling economic growth. His session

offered practical insights for students, researchers, and industry professionals on the opportunities, challenges, and innovations shaping the infrastructure of tomorrow.

Keynote Speech by Dr Shweta Aggrawal

Professor and Associate Dean, Ahmedabad University

Topic: “Green Technologies for Responsible Innovation”



Dr Shweta Aggrawal, Professor and Associate Dean at Ahmedabad University, delivered an insightful online session on “Green Technologies for Responsible Innovation.” She emphasized the critical need for integrating environmentally sustainable technologies into modern industrial, academic, and societal frameworks. According to Dr. Aggrawal, responsible innovation must prioritize ecological balance, resource efficiency, and long-term sustainability while enabling technological progress.

She highlighted emerging green technologies that are reshaping global development, including:

- Renewable energy systems (solar, wind, green hydrogen)
- Smart and energy-efficient grids
- Green materials and sustainable manufacturing
- Waste-to-energy and circular economy systems
- Eco-friendly urban mobility solutions

Dr. Aggrawal explained how digital technologies like AI, IoT, digital twins, and big data analytics are accelerating the transition toward environmentally responsible systems by improving energy management, reducing emissions, and optimizing industrial processes.

She emphasized that the next decade will demand a strong alignment between innovation and sustainability, with policymakers, industries, and researchers working together to adopt carbon-neutral and climate-resilient technologies. She encouraged students and innovators to embed green thinking into their projects, research, and entrepreneurial efforts.

Her session offered a compelling vision of how green technologies can drive responsible innovation, ensuring economic growth while safeguarding the planet.

Memorandum of Understanding (MoU) Signings

During the 45th GISFI Standardization Series Meeting and International Workshop, AMGOI signed four Memoranda of Understanding (MoUs) to strengthen academic, research, and industry collaboration:

1. **CTIF Global Capsule, Denmark** for collaboration on core infrastructure and international research initiatives.
2. **Sharda University, Greater Noida** to promote academic and research partnerships.
3. **Blockchain for Productivity Forum** for collaborative projects and knowledge exchange in blockchain applications.
4. **All India Shri Shivaji Memorial Society (AISSMS), Pune**, for academic, research, and institutional collaboration.

Each MoU was formally signed in the presence of dignitaries and key faculty members, marking a significant step toward international and national collaboration.



AMGOI is signing a Memorandum of Understanding (MoU) with Sharda University, Greater Noida, to strengthen academic and research collaboration.



AMGOI is signing a Memorandum of Understanding (MoU) with CTIF Global Capsule, Denmark, for academic and research collaboration.

Vote of Thanks



Dr C. R. Dongarsane proposed a heartfelt Vote of Thanks at the conclusion of the three-day International Workshop and the 45th GISFI Standardization Series Meeting. He expressed his deep gratitude to all dignitaries, experts, organizers, faculty members, and participants who contributed to the grand success of this event.

He began by extending sincere thanks to the Chief Patrons, Hon. Prof. Ramjee Prasad, Hon. Col. Prof. Karbhari Vishwanath Kale, and all eminent academic and industry leaders for their constant guidance and inspiration. He acknowledged the exceptional contributions of keynote speakers, session chairs, and panelists who enriched the workshop with their deep technical insights across diverse domains such as 6G technologies, AI/ML, blockchain, Industry 5.0, green innovation, digital transformation, cybersecurity, and sustainable development.

Dr Dongarsane also appreciated the meticulous efforts of Prof. Pravin B. Ghewari (Campus Director), Dr. (Mrs.) Sangeeta R. Chougule (Director, AMGOI), all Deans, Heads of Departments, and the entire organizing committee for ensuring flawless planning and smooth execution throughout all three days.

He extended heartfelt thanks to the international speakers who joined online from different parts of the world, making the workshop truly global in spirit. He also acknowledged the technical support team, student volunteers, and non-teaching staff for their dedicated efforts behind the scenes.

Dr Dongarsane concluded by thanking all participants and researchers, whose active engagement and enthusiasm made the workshop meaningful and interactive. He expressed hope that the knowledge shared during these three days will inspire further research, collaboration, and innovation in emerging technologies.

He ended with a warm message of appreciation and wished everyone continued success in their academic and professional endeavours.



Group photograph of all the keynote speakers during the 45th GISFI Standardization Series Meeting and International Workshop.



Participants attended the 45th GISFI Standardisation Series Meeting and International Workshop.



Group photograph of the organizing committee members and coordinators of the 45th GISFI Standardization Series Meeting and International Workshop.



Group photograph of the Cultural Program team of the 45th GISFI Standardization Series Meeting and International Workshop.



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45th GISFI STANDARDIZATION SERIES MEETING

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