

Society

International Conference on

Emerging Smart Computing & Informatics 2025









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7th IEEE International Conference On Emerging Smart Computing and Informatics (ESCI-2025)

Hybrid Mode

5th – 7th March, 2025

Organized By



All India Shri Shivaji Memorial Society's Institute of Information Technology Pune

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Our Heritage



The All India Shri Shivaji Memorial Society was established in 1917 as a broad based educational and social welfare organization by the erstwhile Royal house of Kolhapur, supported by the Royal House of Indore and Gwalior, with a benevolent mission of the welfare of their subject.

The foundation stone of the All India Shri Shivaji Memorial Society was laid at the hand of His Royal Highness, the Prince of Wales, on 19th November, 1921. The equestrian status of Chhatrapati Shivaji Maharaj was executed by the famous Indian Sculptor, Shri Nansaheb Karmarkar and was unveiled by his Excellency Sir Leslie Wilson, Governor of Bombay on 16th June, 1928.

The original plan for the famous heritage building for Shri Shivaji Preparatory Military School was conceived by the Tata construction Co., later redesigned by Rao Bahadur Jagtap and the building was constructed by Rao Bahadur Thube. At the instance of the Chhatrapati Rajaram Maharaj of Kolhapur, the building was inspected by then Commander- in- Chief of the British Army of the India and declared fit to house a Military School. His excellency sir Frederick Sykes Governor of Bombay inaugurated the School on 23 September 1933.

The renowned Engineering Colleges, College of Pharmacy, Polytechnic, Institute of Management and College of Hotel Management and Catering Technology are under the ambit of the society.

Through its various institutions AISSMS has provided the society with exemplary citizens. Some of the most decorated soldiers of the Indian Army have been the alumni of Shri Shivaji Preparatory Military School (SSPMS), the flagship institute of AISSMS. The students are persuaded to maintain strict discipline and regularity. State-of-art infrastructure, facilities of International standard, highly qualified and experienced faculty and dynamic and dynamic and comprehensive teaching learning process are some of the highlights of Institute of AISSMS.

About Institute

About Institute

The All India Shri Shivaji Memorial Society's Institute of Information Technology was established in 1999, is a self-financing Institution and is affiliated to the S. P. Pune University. It is approved by the AICTE, New Delhi and the Director of Technical Education, Government of Maharashtra. The institute is re-accredited with "A+" grade in cycle II by National Assessment and Accreditation Council (NAAC), granted Autonomous status by the UGC and 5 UG programs have been accredited by National Board of Accreditation (NBA).

Our college runs Engineering Degree programs in the branches of Computer Engineering, Information Technology, Artificial Intelligence and Data Science, Electronics and Telecommunication Engineering, Electrical Engineering and Instrumentation leading to the degree of B.E. of Savitribai Phule Pune University. We also have PG courses in Electrical and E&TC Departments and a Ph.D. Research Centre in E&TC.

About Conference

The 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2025) is the platform where academics and industry researchers present their latest algorithms, models and technologies and explore new trends and ideas on smart computing and informatics. The aim of this conference is to provide an allied platform for emerging trends in smart computing, networking, communication, signal and image processing, cyber security and IOT.

The key intention is to provide opportunity for the global participants to share their ideas and experiences in person with their peers expected to join from different parts of the world. In addition to this, the gathering will help the delegates to establish research environment as well as to find the international linkage for future collaboration in their career path. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment.

The conference proceeding invites academics and industry researchers for publication of papers explaining literature review, problem statement, methodologies with appropriate results. The selected papers will be sent to the experts for review. Acceptance will be based on significant and innovative content, originality and unpublished quality work. Accepted and presented papers will be published in IEEE Explore digital library. The Conference also invites special topics, tools and applications in multidisciplinary areas with workshops, tutorial sessions by expert academicians and professionals.

Highlights: To imbibe the research culture in undergraduate students, the conference invites the undergraduate students to publish original, innovative and quality research work. The accepted and presented papers will be published in conference proceeding.

The conference invites the papers in the following domains /tracks:

- Track 1: Smart Computing
- Track 2: Image and Signal Processing
- Track 3: Internet of Thing and Automation

Message from Chairman, AICTE



प्रो. टी. जी. सीताराम अध्यक्ष

Prof. T. G. Sitharam FNAE, DGE, FASCE, FICE (UK) Ph.D. (Univ of Waterloo, Canada), D.Sc Post Doc (Univ of Texas, @Austin USA) Chairman



अखिल मारतीय तकनीकी शिक्षा परिषद्

(भारत सरकार का एक सांविधिक निकाय) (शिक्षा मंत्रालय, मारत सरकार) नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली−110070 पुरसाष: 011−26131498 ई—मेल: chairman@aide-india.org

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (A STATUTORY BODY OF THE GOVT. OF INDIA)

(Ministry of Education, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
Phone: 011-26131498
E-mail: chairman@aicte-india.org

MESSAGE

I extend my heartfelt congratulations to All India Shri Shivaji Memorial Society's Institute of Information Technology (AISSMS 101T), Pune, for organizing the 7th IEEE International Conference on Emerging Smart Computing, Image, Signal Processing, and IoT (ESCI 2025). This prestigious conference serves as a significant platform for researchers, academicians, and industry experts to exchange ideas, explore cutting-edge innovations, and contribute to the ever-evolving landscape of technology.

The overwhelming response of 1500+ research paper submissions and the rigorous 10% acceptance ratio demonstrate the high academic and research standards maintained by this conference. As we advance into an era dominated by Artificial Intelligence, IoT, Data Science, and Smart Technologies, such forums play a crucial role in bridging academia and industry, fostering innovation, and encouraging interdisciplinary research.

AISSMS has a remarkable legacy in technical education, skill development, and industry-academia collaboration, shaping young minds into future leaders. I applaud the institution's commitment to academic excellence, accreditation, and best practices recognized by AICTE, ISTE, CII, and SPPU.

I extend my best wishes to the organizers, participants, and the entire research community for a successful and impactful IEEE-ESCI 2025. May this conference inspire ground breaking research, meaningful collaborations, and technological advancements that contribute to India's progress in science and engineering.

O.G. Sthure 12/2/25 (Prof. T.G. Sitharam)

Message from Vice Chancellor



प्रा. डॉ. सुरेश गोसावी

Prof. Dr. Suresh Gosavi

कलगरू

Vice Chancellor

सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ) गणेशखिंड, पुणे-४११००७, भारत.

Savitribai Phule Pune University

(formerly University of Pune) Ganeshkhind, Pune-411007, India.



MESSAGE



दूरध्वनी : (कार्यालय) ०२०-२५६२१०१७ Telephone: 020-25621017 E-mail: puvc@unipune.ac.in

It gives me immense pleasure to extend my heartfelt congratulations to the All India Shri. Shivaji Memorial Society's Institute of Information Technology (AISSMS IOIT), Pune, for organizing the 7th IEEE International Conference on Emerging Smart Computing & Informatics (IEEE-ESCI 2025), scheduled to take place from 5th to 7th March 2025 at AISSMS IOIT, Pune.

This prestigious conference focuses on crucial topics such as Smart Computing, Image Processing, Signal Processing, and IoT, aligning with the ever-evolving landscape of technological advancements. I am confident that the conference will serve as an excellent platform for researchers, academicians, and industry professionals from across the globe to exchange knowledge, ideas, and innovations in these cutting-edge domains.

At Savitribai Phule Pune University, we strive to foster a culture of research, innovation, and collaboration. Events like IEEE-ESCI 2025 are a reflection of our commitment to empowering students and scholars with a multidimensional understanding of emerging technologies. This conference is not just a step towards academic and research excellence but also a significant opportunity to build global collaborations and partnerships.

I commend the efforts of the Management of AISSMS IOIT and the members of the organizing committee for their hard work and vision in hosting such a significant international event. I am confident that the conference will inspire and empower participants while paving the way for innovative solutions and impactful research outcomes.

I extend my best wishes for the grand success of IEEE-ESCI 2025. May this event contribute immensely to the advancement of knowledge and technology for the betterment of society.

Ref. No.VC/ 79 Date: 2 1 FEB 2021

Message from President



Dr. Shri Shahu Chhatrapati Maharaj (Member of Parliament) President All India Shri Shivaji Memorial Society, Pune

It is our honour and privilege that AISSM Society's Institute of Information Technology (IOIT), Pune, is hosting a distinguished gathering of minds by organizing its 7th IEEE International Conference on 'Emerging Smart Computing & Informatics (IEEE-ESCI 2025)' from 5th to 7th March, 2025 at the forefront of this transformational field. The Institute is reaccredited with "A+" Grade in Cycle II by the National Assessment and Accreditation Council (NAAC), Bangalore, granted Autonomous Status by the University Grants Commission (UGC), New Delhi and 5 UG programs have been accredited by the National Board of Accreditation (NBA), New Delhi. This Conference embodies a vision of profound importance for both professionals and the academic community. It marks a significant milestone in advancing innovative concepts, adopting best practices, and driving continuous improvement. Conferences like this are essential, as they serve as a dynamic platform for exchanging ideas, fostering meaningful connections and igniting a deep passion for technological advancements. The primary aim of this Conference is to encourage and nurture multidisciplinary interest across diverse domains of Engineering and Technology. It will produce scholars with a solid foundation to explore and unlock the vast potential of smart computing and informatics applications. Furthermore, this Conference aims to bridge the gap between academia and industry, promote collaboration and knowledge-sharing to foster innovation. The renewed enthusiasm, commitment and passion of the organizing team will surpass expectations, deliver a comprehensive and enriching experience, thereby ensuring the success of this Conference.

Message from Chair, IEEE Pune Section, Pune



Dr. Amar BuchadeChair
IEEE Pune Section, Pune

I am delighted to extend my heartfelt congratulations to AISSMS's IOIT, Pune, for successfully organizing the 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2025), scheduled to take place from 5th -7th March 2025.

This international conference serves as a premier technical platform for researchers worldwide to showcase their innovative ideas and exchange technical expertise. It welcomes original research contributions across diverse domains, focusing on advancements in Smart Computing, IoT, Image Processing, and Signal Processing.

IEEE ESCI has grown into a prestigious global platform where researchers, academicians, industry professionals, and students come together to exchange groundbreaking ideas and discuss advancements that shape the future of technology. The sessions, keynote addresses, and technical discussions at this conference will serve as catalysts for research, innovation, and real-world applications.

I encourage all participants to actively engage in discussions, network with peers, and make the most of this unique opportunity. We look forward to insightful deliberations and fruitful collaborations that will drive future innovations in smart computing.

Wishing you all a successful and enriching IEEE ESCI 2025!

Message from Honorary Secretary



Shri Malojiraje Chhatrapati Honorary Secretary All India Shri Shivaji Memorial Society, Pune

With immense pleasure I warmly welcome all research scholars, academicians, students and technology enthusiasts from academia and industry to the 7th IEEE International Conference on 'Emerging Smart Computing & Informatics (IEEE-ESCI 2025)' organized by the AISSM Society's Institute of Information Technology (IOIT),Pune. All India Shri Shivaji Memorial Society (AISSMS), an umbrella organization, imparts a high-quality education, values and one of its example is the staging of international conferences. I am confident that this Conference will offer a great opportunity for a global community of scientists, scholars, researchers and industry professionals to convene, engage in stimulating discussions, share groundbreaking research and foster new collaborations in the ever-evolving field of Science & Technology. This Conference will not only serve as a catalyst for innovative ideas and multidisciplinary advancements that will shape the future of engineering and technology but also is a wonderful opportunity to gain a more global perspective on emerging technologies. International collaborative efforts and the exchange of ideas are essential for pushing the boundaries of knowledge. This Conference will undoubtedly pave the way for generating exceptional research interest across all domains of Engineering and Industry, fostering the development of cutting-edge solutions to address global challenges.

I extend my sincere congratulations and express my deep sense of gratitude to the entire team at IOIT for its relentless hard work, visionary planning and unwavering dedication in organizing IEEE-ESCI 2025. Their collective efforts have created a platform that not only brings together thought leaders from around the world but also empowers participants to contribute meaningfully towards a smarter and brighter future.

This Conference is not just an event but a journey that will inspire attendees, spark new ideas and fuel their pursuit of excellence in smart computing and informatics. I am confident that the knowledge gained and connections strengthened here will have a lasting impact on your professional and academic endeavour.

Wishing everyone a highly productive, inspiring, and successful Conference experience! May this event be a memorable milestone in advancing innovation and collaboration!!

Message from Organizing Chair, ICESCI-2025, Pune



Dr. Kishor S. Wagh **Organizing Chair** IEEE ICESCI-2025, Pune

It is with great pleasure that I welcome you to the 7th IEEE International Conference on Emerging Smart Computing & Informatics (IEEE ESCI 2025), scheduled to be held from 5th -7th March 2025, at AISSMS's Institute of Information Technology, Pune. This esteemed conference, organized in collaboration with the IEEE Pune Section and the IEEE Signal Processing Chapter, Pune, serves as a global platform for researchers, academicians, industry professionals, and students to exchange knowledge, share innovative research, and explore advancements in Smart Computing and Informatics.

IEEE ESCI 2025 brings together leading experts and scholars to engage in keynote sessions, technical paper presentations, tutorial talks, and special sessions, all aimed at fostering collaboration and discussing cutting-edge developments. The overwhelming response to paper submissions highlights the growing interest and importance of research in this domain. Each submission has undergone a rigorous review process conducted by an esteemed panel of experts, ensuring the highest quality of academic contributions.

I extend my sincere gratitude to IEEE, AISSMS IOIT, our sponsors, reviewers, technical program committee, and all supporting organizations for their invaluable contributions in making this conference a reality. A special thanks to the all team members, whose relentless efforts have ensured the smooth execution of this event.

I encourage all participants to actively engage in discussions, exchange ideas, and seize the opportunity to build meaningful collaborations. I am confident that IEEE ESCI 2025 will be a remarkable experience, fostering innovation and academic excellence.

Wishing you all a successful and enriching conference!

Message from General Chair, ICESCI-2025, Pune



Dr. P. B. Mane General Chair IEEE ICESCI-2025, Pune

It is our great pleasure to welcome you to the 7th IEEE International Conference on Emerging Smart Computing & Informatics (IEEE ESCI 2025), taking place from 5th -7th March 2025, at AISSMS's Institute of Information Technology, Pune. Organized in collaboration with the IEEE Pune Section and the IEEE Signal Processing Chapter, Pune, this conference serves as a premier platform for researchers, academicians, and industry professionals to exchange knowledge, foster collaborations, and discuss cutting-edge advancements in the fields of smart computing and informatics.

Over the years, IEEE ESCI has evolved into a hub for intellectual discussions and technological innovation. This year, we continue that tradition by bringing together distinguished experts and scholars from around the world to share their insights and research findings. The conference will feature keynote addresses, paper presentations, panel discussions, and networking opportunities, all aimed at exploring emerging trends, challenges, and transformative solutions in computing and informatics.

We extend our sincere gratitude to the authors, reviewers, session chairs, keynote speakers, and the entire organizing committee for their invaluable contributions and dedication. A special thanks to our sponsors, institutional partners, and volunteers, whose support has been instrumental in making this event possible.

We hope that IEEE ESCI 2025 will provide an enriching experience for all participants, fostering meaningful discussions and collaborations that will shape the future of smart computing. Thank you for being a part of this journey, and we look forward to an engaging and insightful conference. We are deeply thankful to IEEE and the AISSM Society for their support in making this conference a resounding success.

Message from Technical Program Chair, ICESCI-2025, Pune



Dear Conference Attendees,

Dr. Meenakshi Thalor Technical Program Chair IEEE ESCI-2025, Pune

On behalf of the Technical Program committee, it is my pleasure to welcome you to IEEE International Conference on Emerging Smart Computing and Informatics (ESCI- 2025). We are excited to have you join us in this engaging and enriching event, filled with insightful technical presentations, discussions, and networking opportunities.

The ESCI 2025 brings together researchers, practitioners, and industry leaders to explore the latest advancements in 3 tracks named as Smart Computing, Image and Signal Processing and Internet of Things. This year, we have an exceptional lineup of papers, preconference tutorials, and keynote speakers who will share their expertise on cutting-edge topics and innovative solutions.

Our technical program also incorporates 9 special sessions, featuring emerging areas of applications. The conference also features with 3 Keynote Speaker sessions and 7 Preconference tutorials on recent topics to address the evolving challenges and opportunities in emerging fields.

We received a total of 1505 paper submissions for the conference, out of which 329 papers have been accepted and 193 papers have been registered for presentation and publication yielding an acceptance rate of 21.8%. The submitting authors originate from various countries from all parts of the world. Every paper went through a rigorous review process, and at the end quality research work is promoted through this conference.

I would like to express my sincere gratitude to all the authors, reviewers, and committee members who have contributed their time and expertise to curate the high-quality content for this conference. Your involvement is instrumental in making this event a success.

I am confident that ESCI 2025 will provide valuable insights, spark new ideas, and contribute to the continued growth and innovation within our community.

Thank you for being part of this journey, and I look forward to engaging with you throughout the conference.

Chief Guest



Dr. Anil K. Rajvanshi
Director and Hon. Secretary
Nimbkar Agricultural Research Institute (NARI)
PHALTAN 415523, Maharashtra, India.

Dr. Anil Rajvanshi did his bachelor's and master's degrees in mechanical engineering from IIT Kanpur and Ph.D. in US from University of Florida (UF), Gainesville, Florida. He is the principal author (1996) of national policy on energy self-sufficient Talukas which is being managed by MNRE. This policy resulted in setting up of nearly 10,000 MW of biomass power capacity in India. He pioneered in 1980s the concept of large-scale dew collection for drinking water. This has been copied world over for producing drinking water from air. Dr. Anil Rajvanshi's group pioneered the development of electric rickshaws in 1990s. He was the first person to initiate a program of e-rickshaws in the country. He pioneered in late 1990s the concept of using ethanol as cooking and lighting fuel for rural areas. This strategy has been copied and promoted all over the world by institutes like World Bank and cooking stove Alliance of UN. He and his group pioneered the development of loose biomass gasification system.

In 2001, Dr. Anil Rajvanshi received the prestigious Jamnalal Bajaj Award for the use of science and technology in rural India from Dr. Manmohan Singh. His efforts led to NARI getting FICCI Platinum Jubilee Award in 2002 from Prime Minister Shri Atal Behari Vajpayee. In 2014, he became the first Indian to receive the Distinguished Alumnus Award of University of Florida (UF), Gainesville, Fla. USA.

In recognition of his noteworthy contributions, in January 2022 Govt. of India honored Dr. Anil Rajvanshi with Padma Shri one of the highest civilian awards in India. He established the energy and sustainable development work at Nimbkar Agricultural Research Institute (NARI) at Phaltan, Maharashtra. NARI was the first Institute in the world to develop 500 kW (thermal) sugarcane leaves and bagasse gasifier in 1995. Besides the technology work, Dr. Rajvanshi has great interest in spirituality and holistic development. In 2016 he published his autobiography and in 2019 his latest e-book "Exploring the Mind of God – How Technology guided by Spirituality can produce Happiness".

Keynote Speaker



Dr. Octavian Postolache
Full Professor
Iscte- University
Institute of Lisbon

Bio- Dr. Octavian Adrian Postolache is electrical engineer and Full Professor at ISCTE-Instituto Universitario de Lisboa and Senior researcher of Instituto de Telecomunicacoes, Lisbon, Portugal. His fields of interests are smart sensors, WSN, IoT for precision agriculture, artificial intelligence for automated measurement systems, intelligent transportation. Dr. Postolache is author and co-author of 10 patents, 12 books, 21 book chapters, and more than 450 papers in international journals and indexed conferences with peer review and he is top 2% world most cited scientists according with Stanford Elsevier 2024. He developed important research work in the field of environment monitoring and he participate as PI or member in national and international Agriculture 4.0 projects such as AGROECOINN and SmartFarm 4.0 Colab. He is IEEE Senior Member, chair of IEEE IMS TC-13 and current chair of IEEE IMS Portugal Chapter. He is Associate Editor of IEEE Sensors Journal, IEEE Transaction on Instrumentation and Measurement and IoT from Elsevier. He received IEEE outstanding reviewer and the outstanding associate editor from IEEE Transactions in Instrumentation and Measurement and IEEE Sensors Journal and other awards related to his research activity at different international forums. He served as project evaluator for different scientific founding agencies.

Keynote Speech Topic: Smart Sensing Systems and AI for Precision Agriculture

Abstract: The precision agriculture (PA) combines technologies and practices that assure the optimization of the operations associated agricultural production through specific farm management. Regarding the employed technologies distributed smart sensing systems characterized by fixed and mobile nodes (based on remote sensing and Unnamed Aerial Vehicle (UAV))) are used to turn the farming operations into data, and to optimize the future operation based on data driven models. Edge and cloud computing platforms that are capable to run AI/ML algorithms may contribute to help on human decisions. This new mode to act in agriculture based on digital transformation through the combination of technologies such as smart sensors, cloud and mobile computing, data science is related to the fact that classical decisions cannot be applied nowadays when the cultivated areas are much extended, and the adverse meteorological events are occurring frequently that conduct to miss-management with yield losses.

Keynote Speaker



Prof. Maode Ma Professor College of Engineering Qatar University, Doha, Qatar

Bio - Prof. Maode Ma, a Fellow of IET, received his Ph.D. degree from the Department of Computer Science at the Hong Kong University of Science and Technology in 1999. Now, Prof. Ma is a Research Professor in the College of Engineering at Qatar University in Qatar. He has extensive research interests including network security and wireless networking. He has over 510 international academic publications with about than 11,000 citations. Prof. Ma is a senior member of the IEEE Communication Society and a member of ACM. Prof. Ma has been a Distinguished Lecturer for the IEEE Communication Society from 2013 to 2016 and from 2023 to 2024.

Keynote Speech Topic: Investigation on Security of Underwater Acoustic Networks

Abstract: Underwater acoustic networks (UWANs) are often deployed in unattended or hostile environments and face many security threats, while many applications over UWANs require secure communication, such as costal defense, submarine communication and harbor security. Peculiar features of UWANs such as very constrained resources pose big challenges in defending the UWANs against security threats. Many solutions to address the issue of security in UWANs have been published. In this talk, I would like to provide a concise survey on the UWAN security by first discussing the fundamental of network security in general and the main UWAN security threats faced by the physical layer to the transport layer. Then, some countermeasure schemes against the typical UWAN security threats will be reviewed along with secure UWAN protocols and cryptographic primitives designed for the UWANs. At the end of the talk, some potential open research issues will be summarized to explore future research topics. It is expected that this talk could trigger the attentions to the issue of security of the UWANs and promote further research collaboration in UWANs.

Keynote Speaker



Dr. Deepak L. Waikar
Chair
IEEE Education Society
Singapore Chapter

Bio - Dr. Deepak L. Waikar has been involved in education, training, research, and management fields for more than three decades. He started his professional career as an Assistant Director at the National Power Engineers Training Institute in India after his post-graduation from the Institute of Technology, Banaras Hindu University in India. He has been associated with the premier institutions, polytechnics, colleges, and academies in India and Singapore as well as with British and Australian Universities offering courses in Singapore. He has authored/coauthored books, book chapters, research articles, and policy papers on power, energy, management, sustainable development, leadership, and education-related topics. He has served on various committees in professional bodies such as Chair of the Institute of Electrical & Electronic Engineers (IEEE), Education Society Chapter Singapore. He is a recipient of the IEEE-PES Outstanding Power Engineers' Award 2003 and SP Green Buddy Award 2004. He has served as Editors and Reviewers for the conferences and journals. He has also been invited as an external examiner for assessing Master and Doctoral Theses. He has delivered hundreds of invited keynotes, plenary, panel session presentations on power, sustainable and clean energy, education, management, sustainable development, and leadership related topics at the international conferences, seminars and forums in North & South America, Europe, Australia, New Zealand, and Asia. Dr. Waikar has conducted hundreds of students, faculty, and management development programs on various topics such as Sustainable & Clean Energy, Designing & Managing Innovative Research and Development projects, Strategies for Infusing Blended Learning, Rethinking Teaching and Learning, Trainopreneurship, Problem/Project based Learning, Design Thinking, and Transforming Higher Education. He is a Senior Member of IEEE USA and a Life Member of the Institution of Engineers, India with Ph.D. from the National University of Singapore, M.S. from the University of Saskatchewan, Canada, M.Tech. from the Banaras Hindu University, India, and PD Certificate in University Teaching from the University of Newcastle, Australia.

Keynote Speech Topic: Attributes of a Digital Teacher as Envisioned in Digital University

Abstract: The Government of India is in the process of setting up of a digital university. The development of digital teachers is one of the key components for the proposed digital university. Suggestions from the major stakeholders were invited to ascertain the essential and desirable attributes of such digital teachers. Experience of colleges, institutions, and universities in online and/or remote teaching amid the global pandemic were also considered. Various online platforms and software proposed by EdTech Companies were also included. Digital divide, inadequate training and experience, and emotional aspects affected the mass customization. What role Automation, Analytics, Artificial Intelligence, Augmented reality, and Agile Technology can play in shaping the key attributes of the digital teacher is the theme of the keynote. Main challenges, tangible and intangible benefits and limitations of such digital teachers are also highlighted.

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Shri. Malojiraje Chhatrapati Hon. Secretary, AISSMS Pune **Dr. Amar Buchade** Chair, IEEE Pune Section, Pune

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Dr. P. B. Mane

IEEE, Pune Section, Principal, AISSMS IOIT, Pune

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Dr. K. S. Wagh AISSMS IOIT, Pune

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Τι	utorial & Keynote Chair
	Mrs. Saba K M Shaikh
A	ISSMS IOIT, Pune, India

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Dr. M.P. Sardey (Image and Signal Processing) AISSMS IOIT, Pune, India	Dr. N. S. Warade (Image and Signal Processing) AISSMS IOIT, Pune, India	

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Mrs. S.V.Kulkarni AISSMS IOIT, Pune

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Mrs. N. S. Patil AISSMS IOIT, Pune

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Dr. Mrunal Pathak AISSMS IOIT, Pune

Mr. V. N. Ghodake AISSMS IOIT, Pune

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Dr. Pritesh PatilAISSMS IOIT, Pune

Venue Committee

Mr. M. B. Nigade AISSMS IOIT, Pune

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Mr. Pandit Shinde AISSMS IOIT, Pune	Mr. Nitin Bhone AISSMS IOIT, Pune		
Dr. Y. P. Patil AISSMS IOIT, Pune	Dr. Dilip Shelar AISSMS IOIT, Pune		
Mr. Pradeep Nimbalkar AISSMS IOIT, Pune	Mr. D.A. Itole AISSMS IOIT, Pune		

Pre Conference Tutorial Session

Date: 4th March 2025, Tuesday

Topic: Role of Automation in Industry (Ofline) **Resource Person**: Mr. Sourabh Soni, Automation Trainer Just Engineering., Pune **Department**: Electrical Engineering

Room No: 213 Time:10.00 am to 12 noon

Coordinator: Ms. Saba Kausar Mubeenahhed Shaikh

Topic: Al-Driven Clickstream Analytics for User Segmentation and Behavioral Insights Landscape: Applications and Future Prospects

Resource Person Mr. Vinothkumar Kolluru Senior Data Scientist-Fractal Analytics, USA

Department: Al &DS Engineering **Room** 405 Time- 10 am to 12 noon **Coordinator** Mrs. Aparna Veer

Link: https://tinyurl.com/ESCI-2025-Pre-Conf-Tut-AInDS

Topic: Practical Insights into Cybersecurity: Securing Digital Identities in a Complex World

Resource Person: Mr. Premsai Ranga

Technical Fellow in Cyber Security and Identity Management,

Maryland ,USA

Department: Information Technology **Room:** 605 Time- 10 to 12 noon **Coordinator**: Dr Mrunal Kishor Pathak

Link: https://tinyurl.com/ESCI-2025-Pre-Conf-Tut-IT

Topic: Ultralight Helicopter for Indian Appli-

cations

Resource Person: Dr. Enti Ranga Reddy

Chairman & Managing Director Legend Technologies (India)

Pvt Ltd

Department: Engineering and Sciences **Room:** 111 Time- 10 to 12 noon **Coordinator:** Mrs. Gayatri Nitin Mawale **Link:** https://tinyurl.com/ESCI-2025-Pre-Conf-

Tut-FE

Topic: Smart Antennas/Software definrd Radios

Resource Person Dr Raghavendra Pal

Asst Professor, SVNIT, Surat

Department E & TC Engineering

Room No: 305 Time: 10 am to 12 noon

Coordinator: Dr Harshada Bhushan Magar

Link: https://tinyurl.com/ESCI-2025-Pre-Conf-Tut-EnTC

Topic: The Role of Remote Sensing in Modern Meteorology

and Climate Research

Resource Person: Dr. Kaustav Chakravarty

ISncdieiantist F, Indian Institute of Tropical Meteorology, Pune,

Department: Computer Engineering **Room** 505 Time- 10 am to 12 noon

Coordinator Mrs. Shilpa Purushottam Pimpalkar Link: https://tinyurl.com/ESCI-2025-Pre-Conf-Tut-CS

Topic: Robotic Process Automation (Ofline) **Resource Person:** Mr. Bapu D. Arkas

Manager - ProAzure Software Solution Ltd Pune

Department: Instrumentation Engineering

Room 704 Time- 10 to 12 noon

Coordinator: Mr. Pradeep Uttamrao Palkar

DAY - 1:5th March 2025, Wednesday

INAUGURAL FUNCTION

Chief Guest:

Dr. ANIL K. RAJVANSHI

Director and Hon. Secretary POSITION Nimbkar Agricultural Research Institute (NARI)

PHALTAN 415523, Maharashtra, India.

Time: 11.00 AM TO 12.00 PM (IST)

Link: https://tinyurl.com/ESCI-25-Inaguration-Keynote-1

Keynote Talk -1 | Time: 12.00 PM (IST)

Speaker: Dr. Deepak L. Waikar

Chair, IEEE Education Society Singapore Chapter

Topic: Attributes of a Digital Teacher as Envisioned in Digital University

Venue: Multipurpose Hall

Coordinator: Ms. Saba Kausar Mubeenahhed Shaikh (M:9881667867) Link: https://tinyurl.com/ESCI-25-Inaguration-Keynote-1

LUNCH BREAK: 1.00 PM to 2.00PM

Day 1- Da	Day 1- Date :5 th March 2025, Wednesday		
	Technical Oral Presentation Session 1: Smart Computing		
		Session Chair: Dr. Taranpreet Singh, Amity University, Jaipur	
		Session Coordinator: Dr. Sarika Nitin Zaware (9822777903)	
		Dr. Saurabh Sumant Shingare (9422604267)	
		Time : 2.00 PM TO 4.00 PM(IST)	
		Link: https://tinyurl.com/DAY-1-Sess-1-SC	
Sr. No.	Paper ID	Title	
1.	56	Shielding Software: The Vital Role of Headers in Ensuring Application Security	
2.	116	Capacitated Vehicle Routing Problem using Ant Colony Optimization and PuLP Library	
3.	117	Neighborhood Evaluation and Scoring System	
4.	126	Effective Vulnerability Reconnaissance for Content Management System Using Skip-Fish	
5.	130	HBPSO Based Resource Scheduling For Optimization Of Cost And Makespan In Cloud Data Centers	
6.	149	Efficient Fingerprint Database Organization for Optimized Recognition	

Technical Oral Presentation session 2: Image & Signal Processing Session Chair: Dr. Amrita Ruperee, Vidyavardhini college of Engineering and Technology, Vasai Session Coordinator: Dr. Shagufta Mohammad Sayeed Sheikh (9689993993) Dr. Deeplakshmi Sachin Zingade (7249249519) Time: 2.00 PM TO 4.00 PM(IST) Link: https://tinyurl.com/DAY-1-Sess-2-ISP			
Sr. No.	Paper ID	Title	
1.	88	Securing Automotives with Iris Pattern Recognition	
2.	145	Butterfly Optimization and Deep Learning to Classify Heart Sound Signal	
3.	365	Al Driven Rat Detection For Warehouse	
4.	388	Spatial-Scale Sensitivity in SEBAL Evapotranspiration Estimation for Crop Health Monitoring with Sentinel-2A	
5.	408	Classification of EMG-based Hand Gestures using Time and Frequency Domain Features	
6.	471	Copyright information embedding using Steganography with Binary Lower Triangular Matrix	

Technical Oral Presentation Session 3: Smart Computing Session Chair: Dr. Rani Chaudhary, Chitkara University, Punjab Session Coordinator: Dr. Chetan Nimba Aher (9503443501) Mr. Rahul Namdeo Jadhav (9960622886) Time: 2.00 PM TO 4.00 PM(IST) Link: https://tinyurl.com/DAY-1-Sess-3-SC		
Sr. No.	Paper ID	Title
1.	155	Deep Learning for Diabetic Retinopathy Detection Using Preprocessed Fundus Images and Inception-v3
2.	164	Algorithmic Optimization of Coupon Pooling Application: A Machine Learning Perspective
3.	165	Human Perceptual Biases and their Analogous Prevalence in Artificial Intelligence Systems: Bias Mitigation for Dependable Al
4.	170	Enhancing Passive Index Investing: Augmenting Volatility Harvesting with Machine Learning Models for Higher Returns
5.	172	Binary Learning Cooking Algorithm with Relief for Feature Selection of High-dimensional Gene Expression Data
6.	1393	Efficient Source-Level Waste Segregation Using CNN-Based Waste Classifier with IoT-Enabled Smart Bins and Mobile Application

Technical Oral Presentation Session 4: Internet of Things

Session Chair: Dr. Umesh Pawar, SOCSE Sandip University Nashik, Maharashtra

Session Coordinator: Dr. Rakesh Bapu Dhumale(9763463366)

Dr. Veena Suhas Bhende (9970974045) Time: 2.00 PM to 4:00 PM(IST)

Link: https://tinyurl.com/DAY-1-Sess-4-IoT

Sr. No.	Paper ID	Title
1.	4	Hybrid Unified Al-Based Biometric Authentication: A Low-Power, High-Security Scheme
2.	59	A New Maintenance Framework of WSN for Consumer and e-Commerce: A Convergence of AI, ML, and IoT
3.	61	Encryption and Decryption of Different File Formats Using AES
4.	135	Comparative Analysis of Custom Neural Network Model and VGG-16 for Multi-class Image Classification
5.	190	Autonomous Food Delivery Robot Inside College Campus
6.	211	Enhancing Retrieval Augmented Generation Systems Using Al Models and Graph Databases

Technical Oral Presentation Session 6: Image & Signal Processing

Session Chair: Dr. Rutuja Deshmukh, D.Y. Patil College of Engineering, Akurdi Pune

Session Coordinator: Dr. Meenakshi Anurag Thalor(9923602929) Ms . Pradnya Dattatraya Bormane (9763722263)

Time: 2.00 PM to 4:00 PM (IST)

Link: https://tinyurl.com/DAY-1-Sess-6-IS		
Sr. No.	Paper ID	Title
1.	519	Auralize: Text to Tune
2.	873	COP-Detect: An End-to-End Transformer based Enhanced Colon Polyp Detection and Segmentation Framework Using Colonoscopy Images
3.	888	Implementation of Autonomous Vehicle using Real-Time Image processing and Computer Vision Algorithm
4.	892	A Web-Based System for QR Code Flag Identification and DecodingWith Python and Flask
5.	908	Towards Touchless Interaction: Implementing Hand Gesture Recognition for Presentation and Media Control
6.	922	Segmentation of Brain Tumors in CT Images: A Comparative Analysis Using Convolutional Neural Network (CNN) Techniques and Support Vector Machine (SVM)
7.	72	Algorithm For Preprocessing Satellite Imagery That Uses Geometric, Atmospheric, And Radiometric Correction

Technical Oral Presentation Session 7: Image & Signal Processing Session Chair: Dr. Yuvraj Parkale, SVPM'S College of Engineering, Malegaon(Bk), Baramati Session Coordinator: Dr. Mamta Sanjay Koban (Wanjre)(9921353812) Mr. Vikas Janardan Desai(9421676837) Time: 2.00 PM to 4:00 PM(IST) Link: https://tinyurl.com/DAY-1-Sess-7-ISP		
Sr. No.	Paper ID	Title
1.	696	Computer Vision-Based Hand Recognition and Gesture Control for Dino Games
2.	762	AlertCam-An Effective Anomaly Detection System using Computer Vision
3.	770	Enhanced Wildfire Detection In Forest Areas Via Opencv With Deep Convolutional Neural Networks For Smoke And Flame Segmentation
4.	787	Co-ordinate Measurement Machine Using Computer Vision
5.	855	DST-M2D: A Dualistic-Series Transformer Framework for Major Depressive Disorder Analysis Using Multimodal MRI Data
6.	869	Wild-Fire and Smoke Detection for Environmental Disaster Management using Deep Learning: Comparative Analysis using YOLO variants
7.	3	Revolutionizing Satellite Image Classification using Deep Learning Framework

Keynote Talk -2 | Time: 4.00 PM (IST)

Speaker: Maode Ma (Senior Member, IEEE)

Professor - College of Engineering, Qatar University, Doha, Qatar

Topic: Investigation on Security of Underwater Acoustic Networks

Venue : Multipurpose Hall (2nd floor)

Coordinator: Ms. Saba Kausar Mubeenahhed Shaikh (M:9881667867)

Link: https://tinyurl.com/ESCI-2025-Keynote-2

DAY-2:6th March 2025, Thursday

Technical Oral Presentation Session 8: Internet of Things

Session Chair: Dr. Nirmal K,eBay, California

Session Coordinator: Dr. Nilima Satish Warade (9960257810)

Ms. Neha Sangram Patil (9561508345)

Time: 9.00 AM to 11.00 AM (IST)

Link: https://tinyurl.com/DAY-2-Sess-8-lo

Sr. No.	Paper ID	Title
1.	894	Hybrid Deep Learning Model for Open-Set Seed Classification Using Hyperspectral and RGB Imaging
2.	936	Enhancing Cybersecurity in Rural Areas - A Multilayered AI Approach to Combat Phishing Threats using Quantum Computing
3.	943	Improving Security Detection with Machine Learning: A Scalable Solution for Real-Time Vulnerability Analysis
4.	972	Machine Learning Prognostics For Genetic Disorder Prediction
5.	1000	Sustainable Smart Irrigation in Precision Farming using IoT
6.	1007	Secure Bitcoin Hardware Wallet Design, Implementation, and Security Analysis

Technical Oral Presentation session 9: Image & Signal Processing

Session Chair: Dr. Vikas Gupta, Vidyavardhini college of Engineering and Technology

Session Coordinator: Dr. Vineeta Philip (7620086020)

Ms. Sayali Aditya Belhe (9766937515)

Time: 9.00 AM to 11.00 AM (IST)

	Link: https://tinyurl.com/DAY-2-Sess-9-IS		
Sr. No.	Paper ID	Title	
1.	962	Multi-Task Learning Approach for Detecting Multiple Tumors Using CT and MRI Images	
2.	983	Comparative Analysis of YOLOv8 and Faster R-CNN in Fire and Smoke Detection	
3.	1024	Transfer and Bayesian Learning Approaches for Land Use and Land Cover Classification	
4.	1028	Explainable AI for Electronic Health Record (EHR) Analysis and Patient Risk Prediction	
5.	1055	Design and Optimization of RF Self Biased Ku Band LNA with Low Noise, High Gain	
6.	1094	Graph convolutional neural network-based Bone Marrow Classification	
7.	1441	EEG-Based Brain-Computer Interface for Robotic System Control Using Right-Left Hand Movements with Ensemble Model	

	Technical Oral Presentation Session 10: Smart Computing Session Chair: Dr. Snehal Rathi, Vishwakarma Institute of Information Technology, Pune Session Coordinator: Dr. Krutuja Shikrishna Gadgil (9822653943) Mrs. Minal Prashant Nerkar (9850173169) Time :9.00 AM to 11.00 AM (IST) Link: https://tinyurl.com/DAY-2-Sess-10-S		
Sr. No.	Paper ID	Title	
1.	937	Applications of Artificial Intelligence in Biomedicine and Healthcare: Improving Efficiency, Decision-Making, and Tailored Patient Care	
2.	1004	Guava Health Monitoring Using Deep Vision: A VGG-16 Model Implementation	
3.	1019	LSTM Networks for Improved Environmental Monitoring and Biodiversity Conservation	
4.	1025	Prediction of Remaining Useful Life of the Space Rover Battery Using Fuzzy Adaptive Neural Learning Network	
5.	1029	Unsupervised Learning Approaches for Workload Optimization in Cloud-Based AI Systems	
6.	1053	Autoencoder-LSTM Ensembles for Predictive Analysis of Financial Churn Patterns	

	Technical Oral Presentation Session 11: Smart Computing Session Chair: Renita Ganguly, 3D Technologies LLC Jersey City, NJ ,USA Session Coordinator: Dr. Amrapali Shivaji Chavan (9822795994) Dr. Poonam Ranveersingh Kaswan (9873632419) Time :9.00 AM to 11.00 AM (IST) Link: https://tinyurl.com/DAY-2-Sess-11-SC		
Sr. No.	Paper ID	Title	
1.	439	Image Based Cancer Classification Using Metaheuristic Algorithms and Deep Transfer Learning	
2.	503	Combining Speech Recognition and Machine Learning for Context-Aware English Pronunciation Assessment	
3.	509	Machine Learning-Driven Risk Stratification in Rural Healthcare During the Pandemic: An Ensemble Voting Classifier Approach	
4.	540	Graph-Based Deep Learning Models for Optimized Routing in Autonomous Networks Using Reinforcement Learning	
5.	569	Harnessing AI and Machine Learning to Transform English Language Learning Experiences	
6.	622	Classification and Labeling Techniques of Educational Resources Based on BERT-CNN model	

Technical Oral Presentation Session 13: Internet of Things

 $Session\,Chair:\,Dr.\,Manjusha\,Tatiya, Indira\,College\,of\,Engineering\,\&\,Management, Pune$

Session Coordinator: Dr. Archana Ganesh Said(9767747898)

Ms. Supriya Kumar More (9158769054)

Time: 9.00 AM to 11.00 AM (IST)

Link: https://tinyurl.com/DAY-2-Sess-13-IoT

Link. Helps, free in factor of the factor of		
Sr. No.	Paper ID	Title
1.	731	Subterranean Guardian: Tunnel Safety and soil-Borne Emergency Data Transfer
2.	760	Automated Fire Suppression System for Electrical Panel Enclosures Using IoT and Embedded System
3.	773	Deep Neural Networks for Advanced Medication Security in IoT-Enabled Smart Robotic Dispensing Cabinets
4.	793	Sustainable Water Management in Precision Agriculture
5.	854	Dynamic Vehicle Stability Analysis Using IoT Sensors and Bayesian Network Approach
6.	1156	Cloud-Integrated BLE Temperature Control and Monitoring System for Portable Transport of Temperature Sensitive Goods

Technical Oral Presentation Session 14: Smart Computing

Session Chair: Hillol Biswas, WAPCOS Limited

Session Coordinator: Dr. Riyazahmed Abdulgani Jamadar (9823289109)

Ms. Anuradha Shivajirao Varal (9561609068)

Time: 9.00 AM to 11.00 AM (IST)

Link: https://tinyurl.com/DAY-2-Sess-14-SC

	Link. https://tinyun.com/DA1-2-5ess-14-5C		
Sr. No.	Paper ID	Title	
1.	631	An Associative Memory Approach to Predict Autism Spectrum Disorder	
2.	648	SkinCareNet with DermGraph: Revolutionizing Skin Cancer Detection with Adaptive Graph Intelligence Algorithms	
3.	670	Efficient Host Threat Detection Using The Procsage Method	
4.	705	CAMICS: A Context-Aware Multi-Intent Conversational System for Enhanced AI-Driven Customer Interaction Models	
5.	1363	BoTNetShield: Intelligent IoT Security Framework using Convolution Neural Network	
6.	1361	Leveraging Convolutional Neural Networks for AI Artwork Classification	

Technical Oral Presentation Session 15: Smart Computing

Session Chair: Dr. Pradip Ghorpade, Vidya Prathishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati

Session Coordinator: Dr. Manisha Rakesh Raghuvanshi (8989872278)

Dr. Vijaykumar S. Kamble (9158165918)

Time: 9.00 AM to 11.00 AM (IST) Link: https://tinyurl.com/DAY-2-Sess-15-SC

Paper ID Sr. No. Title 1. 732 A Hybrid Explainable AI Framework for Enhancing Trust and Transparency in Autonomous Vehicles 2. 737 CryptoQNet: Leveraging Quantum Computing for Enhanced Cryptocurrency Market Analysis 3. 764 Improving Artificial English Academic Paper Summarization employing Cutting-Edge Transformer Models 4. 820 Optimizing Financial Security with Cloud AI: Implementing Deep Q-Network and Transfer Learning for Risk Management and Fraud Detection 5. 826 Behavior Prediction and Anomaly Detection: Leveraging ML for Online Child Safety

Technical Oral Presentation Session 16: Smart Computing

Session Chair: Dr. Nitin Wankhede, PCET-NMIET

Session Coordinator: Ms. Javashree Chandrakant Pasalkar (8408856344)

Mrs. Farhana Sarvar Fatima Kazi Sayed(9158985458)

Time: 9.00 AM to 11.00 AM (IST)

Link: https://tinyun.com/DAY-2-Sess-16-SC		
Sr. No.	Paper ID	Title
1.	902	Enhancing Lung Diseases Prediction Using CNN ResNet-101 Model
2.	916	A Hybrid Approach for Understanding Animal Behavior Using Deep Learning Techniques
3.	917	Industrial Internet of Things Energy Efficiency: Investigating Low-Power Communication Protocols and Eco-Friendly Data Management in Manufacturing Settings
4.	927	Improving Intrusion Detection Systems using Reinforcement Learning: Responding to New Cyber Attacks and Threats
5.	1390	Comprehensive Analysis of Machine Learning Models and Hybrid Approaches for Fake News Detection

Keynote Talk 3 | Time:11.00 AM (IST)

Speaker: Dr. Octavian Postolache

Full Professor, Iscte- University Institute of Lisbon

Senior Researcher, Instituto de Telecomunicaçoes, Lisbon, Portugal

Topic: Smart Sensing Systems and AI for Precision Agriculture

Venue: Multipurpose Hall

Coordinator: Ms. Saba Kausar Mubeenahhed Shaikh (M:+919881667867)

Link: https://tinyurl.com/ESCI-2025-Keynote-03

LUNCH BREAK 1.00 PM-2.00PM

Technical Oral Presentation Session 17: Smart Computing (Offline)

Session Chair: Dr. Shailesh Pramod Bendale, NBN Sinhgad School of Engineering, Pune

Session Coordinator: Dr. Pritam Santosh Saha (9209217431)

Mrs. Snehal Akshay Bagal (7588609308)

Room Number:111

Time: 2.00 PM to 4.00 PM (IST)

Sr. No.	Pa-	Title
	per ID	
1.	1288	Identification of Hub Genes and Enriched Pathways in Lung Cancer using Single-Cell RNA Sequencing
2.	900	Federated Learning for Cardiovascular Disease Prediction
3.	830	A Multimodal Anonymization Framework for MP4 Videos
4.	839	Comprehensive Comparative Analysis of Food Classification Using YOLOv8n, VGG19, and InceptionV3
5.	436	American Sign Language Recognition Application
6.	339	Examsentry: Secure, Verify, Excel
7.	171	Text2Image: Generating Visuals from Words using Deep Learning
8.	253	Video Segmentation and Retrieval Based on Image-Driven Person Recognition for Surveillance

Technical Oral Presentation Session 18: Internet of Things(Offline)

Session Chair: Dr. KAVITA KUMAVAT, Vishwakarma University, Pune Session Coordinator: Dr. Reshma Yogesh Totare (9860479570)

Ms. Supriya Vikas Lohar(7741928441)

Room No:210 Time: Time : 2.00 PM to 4.00 PM (IST)

Sr. No.	Paper ID	Title
1.	1169	Milk Adulteration Detection Through Statistical Analysis, Spectroscopy, & Al Integration Footsteps
2.	871	Intrusion Detection using Federated Learning with Application of Federated Dropout
3.	1057	Web-Kavach: Shielding Your Digital Life
4.	746	EduMate: AI-Based Student Support Platform with OCR and Voice Assistance
5.	1221	An Automated IoT-Enabled Real-Time Intravenous Infusion cum Remote Patient Monitoring System

Technical Oral Presentation Session 19: Image & Signal Processing(Offline)

Session Chair: Dr. Yogini Borole, Marathwada Mitrmandal's Institute of Technology, Lohagaon, Pune
Session Coordinator: Dr. Nidhi Sharma (9168351100)

Ms. Anuja Sandeep Phapale (9730299992)

Room Number: 213

Time: 2.00 PM to 4.00 PM (IST)

Sr. No.	Paper ID	Title
1.	1440	Chilli Leaf Disease Prediction System using Deep Learning Model
2.	443	Alzheimer's Disease Diagnosis from Brain MRI Using Deep Learning Techniques
3.	318	Comparative Analysis of Machine Learning Algorithms for EMG Signal Classification
4.	872	Advancing Drone-Based Traffic Surveillance: A Review and Novel Framework for Attention-Guided Motion Deblurring and Compensation
5.	183	Enhancing Visibility in Foggy Landmark Images: Advanced Restoration Methods
6.	1186	Multi-Model Deep Learning Framework for Autonomous Perception and Scene Understanding
7.	138	Brain Tumor Classification in MRI Scans Using Shape Features & Machine Learning Techniques
8.	274	Comparative Analysis of Advanced GAN Architectures for Robust Image Dehazing in Synthetic and Real-World Scenarios

Technical Oral Presentation Session 20: Internet of Things

Session Chair: Dr. Totappa Hasarmani, TSSM Bhivarabai Sawant College of Engineering and Research, Pune

Session Coordinator: Dr. Amita Anirudha Shinde (9552003437)

Ms. Varsha Kiran Patil (9325643275)

Time: 2.00 PM to 4.00 PM (IST)

Link: https://tinyurl.com/DAY-2-Sess-20-IoT

	Link. https://tiniyun.com/ph/-2-5655-20-101		
Sr. No.	Paper ID	Title	
1.	1059	Optimizing Industrial IoT Predictive Maintenance Using Quantum Algorithms on Google Quantum Al	
2.	1064	Security Enhancement in MANET using Modified Crow Search Optimization Algorithm for IoT Applications	
3.	1065	Enhancement of Security in MANET using Modified Crow Harris Hawks Optimization Algorithm for IoT Applications	
4.	1080	A Comphrehensive Approach To Power Management In Hybrid Electric Vehicle	
5.	1106	Enhancing Respiratory Health with Smart Cooling Masks and Immune System Monitoring	
6.	1142	Analyzing Advanced Persistent Threats (APTs) Using Passive Honeypot Sensors and Self-Organizing Maps	
7.	1066	Comprehensive Mix-Method Approach for Efficient Waste Management using IoT-Driven Solutions	

Technical Oral Presentation Session 21: Smart Computing

 $Session\,Chair:\,Dr.\,Sanket\,Raval,GMB\,Polytechnic,\,Rajula(Affiliated\,to\,GTU,\,Ahmedabad,\,Gujarat)$

Session Coordinator: Ms. Minal Abhijeet Zope (9970098042)

Dr. Jayesh Dineshbhai Savaliya (9913673274)

Time: 2.00 PM to 4.00 PM (IST)

Link: https://tinyurl.com/DAY-2-Sess-21-SC

Sr. No.	Paper ID	Title
1.	1073	Advanced Intelligent Pedestrian Crossing System
2.	1151	Advancing Carbon Emission Prediction through Machine Learning: The Impact of Fossil, Nuclear, and Renewable Energies
3.	1227	An Efficient Hybrid Privacy Preservation Model for Big Data Analytics
4.	1300	Dynamic Load Balancing in Cloud Computing Using a Hybrid Bidirectional LSTM -RNN with Deep Learning VM Snapshot Protocols
5.	1403	Integrating Machine Learning for PCOS Detection and femBot: A Novel NLP-Based Menstrual Health Chatbot for Women's Health Support
6.	1429	Innovations in Multi-Touch Attribution Models: Beyond Traditional Marketing Analytics in the Pharmaceutical Sector

Technical Oral Presentation Session 22: Smart Computing

Session Chair: Dr. Bhagyashree Shendkar, MIT Art Design and Technology University, Pune

Session Coordinator: Dr. Mohini Pramod Sardey (9881409100)

Ms. Rupali Shrirang Pawar (9028706700)

Time: 2.00 PM to 4.00 PM (IST)

Link: https://tinyurl.com/DAY-2-Sess-22-SC

Sr. No.	Paper ID	Title			
1.	195	mpowering Deaf Communication: Deep Learning Framework for Sign to Speech Translation			
2.	214	oding Digital Intruders: Machine Learning Strategies for Botnet Identification			
3.	798	lovel Distributed Approach for Next Best Offer using XGboost			
4.	255	Dynamic StarCraft: Multi-Agent Generative AI for Immersive Experiences			
5.	265	Al Powered Plant Disease Detection And Diagnosis			
6.	322	Hierarchical Community Detection and Network Analysis: A 2-Level Approach for Social Media Networks			

DAY -3:7th March 2025, Friday

Technical Oral Presentation session 23: Special session

 $Session\,Chair:\,Dr\,Suresh\,Limkar,\,Central\,University\,of\,Jammu,\,J\&K,\,INDIA$

Session Coordinator: Dr. Yogesh Pralhadrao Patil (9421051726)

Dr. Vaishali Prahladrao Kuralkar (Yawale) (986050260)

Time: 11.00 AM TO 1.00 PM (IST)

Link: https://tinvurl.com/DAY-3-Sess-23-SS Sr. No. Paper ID Title Development of Neural Interface-Based Brain-Controlled Robotic Prosthetics for Enhanced Mobility in 1. SVL 10 **Amputees** 2. SVL 02 Building Al-Driven Frameworks for Real-Time Threat Detection and Mitigation in IoT Networks 3. SVL 03 Developing Energy-Efficient IoT Architecture with Edge and Fog Computing for Smart Cities SVL 04 Enhancing Data Security in Transmission Through Quantum Key Distribution in Cryptography 4. 5. SVL 06 Advancing Personalized Medicine Using Genomic Data Analysis and Predictive Modeling 6. Innovations in Robotics and Automation to Improve Efficiency and Precision in Healthcare Delivery and SVL 07 Rehabilitation Systems

Technical Oral Presentation session 24: Special session

 $Session\ Chair: Dr.\ Ashu\ Taneja,\ Institute\ of\ Engineering\ and\ Technology,\ Chitkara\ University,\ Punjab$

Session Coordinator: Dr. Shivaji Sitaram Gadadhe (9096618989)

Ms. Bhagyashree D. Lambture (8208863705)

Time:11.00 AM TO 1.00 PM (IST)

Link: https://tinyurl.com/DAY-3-Sess-24-SS

Sr. No.	Paper ID	Title		
1.	SVL_08	Internet of Things Applications for Real-Time Remote Patient Monitoring and Health Management Through Wearable Technologies		
2.	SVL_16	Evaluating Deep Learning Approaches for Lymph Node Classification and Gastric Cancer Segmentation		
3.	SVL_13	Automated Detection of Poultry Diseases Using Deep Learning and Computer Vision		
4.	SVL_09	Using Quantum Annealing to Solve Large-Scale Optimization Problems in Logistics and Scheduling		
5.	SVL_01	Integrating Reinforcement Learning with Explainable AI for Real-Time Decision Making in Dynamic Environments		

Technical Oral Presentation Session 25: Special Session

 $Session\ Chair:\ Dr.\ Vikash\ Yadav,\ Government\ Polytechnic\ Bighapur\ Unnao,\ Uttar\ Pradesh$

Session Coordinator: Dr. Pramod Ganesh Musrif(Joshi) (9552546729)

Ms. Pragati Prashant Mahale (9405371647)

Time: 11.00 AM TO 1.00 PM (IST)
Link: https://tinyurl.com/DAY-3-Sess-25-SS

Sr. No.	Paper ID	Title			
1.	VY_05	DLOv7 for Dental Caries Detection: Challenges in Small Object Identification			
2.	VY_04	Fransforming Agriculture: Deep Learning for Leaf Disease Detection			
3.	VY_10	Analyzing Machine Learning Frameworks for Anomaly Detection on Web Server Log Data			
4.	VY_12	A Deep Learning Approach for Multi-Disease Diagnosis with ResNet50 and Spatial Attention			

Technical Oral Presentation Session 26: Special Session

Session Chair: Dr. P.A. Harsha Vardhini, Vignan Institute of Technology and Science, Hyderabad, Telangana, India.

Session Coordinator: Dr. Pritesh Kumar Patil (9209217431)

Dr. Nitin Prakashrao Bhone (9021185621)

Time: 11.00 AM TO 1.00 PM (IST)

Link: https://tinyurl.com/DAY-3-Sess-26-SS

Sr. No.	Paper ID	Title			
1.	PA_17	Design and Performance Evaluation of MIMO Systems for Next Generation Wireless Networks			
2.	PA_60	oam Classification Using Machine Learning: Performance Evaluation and Insights			
3.	PA_46	mage Compression and Enhancement Using Deep Learning Algorithm			
4.	SS_06	Al and Machine Learning Applications in Hepatitis B Diagnosis: An Exploration of Techniques and Outcomes			
5.	SL_01	Phishing Detection And Response System With Xgboost Machine Learning			

Technical Oral Presentation Session 27: Smart Computing

Session Chair: Dr. Sharmila Kishore Wagh, M.E.S. College of Engineering, Pune

Session Coordinator: Dr. Dilip Shravan Shelar (9829937046)

Mr. Girish Jaysing Navale (7758990466)

Time: 11.00 AM TO 1.00 PM (IST)
Link: https://tinyurl.com/DAY-3-Sess-27-SC

Sr. No.	Sr. No. Paper ID Title					
1.	345	Multimodal CNN-Based Framework for Enhanced Detection and Classification of Skin Cancer and Cysts				
2.	356	Road Pothole Detection and Reporting System				
3.	369	Automated Bridge Inspection and Structural Damage Detection Using YOLOv5-s				
4.	389	Unveiling Customer Behavior: A Comprehensive Study on Predictive Models for Telcom Churn				
6.	430	Towards Precision Medicine: Deep Learning-Based Pulmonary Tuberculosis Detection in Radiographic Imaging				
5.	427	GenAl based Data Extraction with Query-based Insights				

Technical Oral Presentation Session 28: Internet of Things

 $Session\,Chair:\,Dr.\,Santosh\,Rajgade,\,Government\,College\,of\,Engineering\,Chandrapur$

Session Coordinator: Dr. Badri Naryan Mohapatra (8956603781)

Ms. Shradha Bhanudasrao Toney(9730408533)

Time: 11.00 AM TO 1.00 PM (IST)
Link: https://tinyurl.com/DAY-3-Sess-28-loT

Sr. No.	Paper ID	Title			
1.	1183	Smart Prepaid Electric Meter System			
2.	1220	Acoustic Emission Signal Localization in Steel Specimen Using Neural Networks with Multi-Sensor Feature Concatenation			
3.	1229	efense Mechanism to Thwart Model Poisoning on Non-IID Data based Federated Learning for Credit raud Detection System			
4.	1230	Bluetooth Vulnerabilities and Security			
5.	1249	Optimizing Existing SHM Systems: Retasking as a Self-Healing Solution for Improved Fault Tolerance			
6.	1157	Privacy Preserving Healthcare based on Secure Mathematical Foundations of Fully Homomorphic Encryption (FHE)			
7.	1158	Optimizing Latency and Energy Efficiency in Edge Computing with Reinforcement Learning and TinyML			

Technical Oral Presentation Session 29: Image & Signal Processing

Session Chair: Dr. Ashish Vanmali, Vidyavardhini college of Engineering and Technology

Session Coordinator: Mr. Prashant Prakash Mahajan (9763644533)

Dr. Shashikant Rangnathrao Kale (9975703571) Time: 11.00 AM TO 1.00 PM (IST)

Link: https://tinyurl.com/DAY-3-Sess-29-ISP

	LITIK. TILLIPS.//LITIYUTI.COTT/DAT-5-5e55-25-15F				
Sr. No.	Sr. No. Paper ID Title				
1.	1291	Medical Image Fusion Enhancement through Curvelet Transform			
2.	1313	Deep Learning Based CAPTCHA Verification Systems			
3.	1365	Hybrid Heuristic Optimization of Deep Learning Models for Robust Plant Disease Detection			
4.	1368	Integrating Imaging and Clinical Data for Parkinson's Disease Diagnosis using Deep Learning			
5.	1398	Optimizing construction and demolition waste Segmentation using Advanced Deep Learning Techniques (Semantic vs Instance segmentation)			
6.	1409	A Study on Intelligibility, Naturalness and Fluency of Text-to-Speech Systems			

Technical Oral Presentation Session 30: Smart Computing

Session Chair: Dr. Archana Chaudhari, Assistant Professor, Symbiosis Institute of Technology, Pune, India Session Coordinator: Dr. Ashapana Dilavar Shiralkar (9763793499)

Ms. Reshma Rajanand Owhal (8149869323)

Time: 11.00 AM TO 1.00 PM (IST) Link: https://tinyurl.com/DAY-3-Sess-30-SC

- Tropoly time and the second							
Sr. No.	Paper ID	Title					
1.	1434	Sign Language Recognition using Deep Learning					
2.	967	Secure Digital Twin Healthcare Framework for Precision Medicine: Integrating IoMT, ML and Fog omputing					
3.	5	Simulation and Evaluation of a DWDM System Utilizing OptiSystem					
4.	6	Meta Emotional Intelligence for Early Bone Abnormality Detection					
5.	920	Advancement in Explainable AI: Bringing Transparency and Interpretability to Machine Learning Models for Use in High-Stakes Decisions					
6.	749	Leveraging Transfer Learning for Object Detection in Medical Imaging					

Technical Oral Presentation Session 31: Internet of Things Session Chair: Dr. Arti Suryavanshi, HSBPVT'S GOI FOE KASHTI

Dr. Vandana Vishwanathrao Kale (9822623780) Dr. Supriya Arvind Bhosale (8793430887)

Time: 11.00 AM TO 1.00 PM (IST)

Link: https://tinyurl.com/DAY-3-Sess-31-loT							
Sr. No.	Paper ID	Title					
1.	1274	Fiered gPTP: A Simulative Study on Balancing Time-Sync Accuracy and Coverage with Time Source Replication					
2.	1322	nplementation and Functional Verification of I2C, SPI and CAN frame protocols					
3.	1328	Ambisync: An Internet of Things Approach to Room Energy Automation and Optimization					
4.	1360	Performance Optimization in Wireless Sensor Networks using REAMR Protocol for IoT Applications					
5.	1374	IoT-based Prosthetic Arm Controlled by Human Gestures					
6.	1414	Design and Deployment of Anti-smog Gun for clean air in Urban areas					

Technical Oral Presentation Session 32: Image & Signal Processing

Session Chair: Dr. Sarika Patil, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune Session Coordinator: Mr. Sachin R. Kokane (9673037327)

Ms. Prajwal Sopan Gaikwad (9762023200)

Time::11.00 AM TO 1.00 PM (IST) Link: https://tinyurl.com/DAY-3-Sess-32-ISP

Sr. No.	Paper ID	Title		
1.	1124	esture Language Translation Using Convolutional Neural Network		
2.	1152	hancing Real-Time Military Intelligence through LoRa and Advanced Data Analysis		
3.	1213	EfficientHACoTNet: A New Framework for Detecting Grape Leaf Diseases with Depthwise Separable Convolutions and Attention Mechanisms		
4.	1242	Micro-expression analysis for security and law enforcment using Deep Learning		
5.	1245	Vigilance Alertness System		
6.	47	Reconstruction of 2D Images into 3D Model		

LUNCH BREAK 1.00 PM- 2.00PM

VALEDICTORY 2.00 PM- 3.00PM (IST)

Chief Guest:

Dr. Pramod Patil

Dean, Science & Technology, Savitribai Phule Pune University, Pune, Maharashtra, India Link: https://tinyurl.com/ESCI-2025-Valedictory



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Inauguration Function



Inauguration Of ESCI- 2025: Lamp lightning

ESCI-2025 is the platform where academics and industry researchers present their latest algorithms, models and technologies and explore new trends and ideas on smart computing and informatics. The aim of this conference is to provide an allied platform for emerging trends in smart computing, networking, communication, signal and image processing, cyber security and IoT. The key intention is to provide an opportunity for the global participants to share their ideas and experiences in person with their peers expected to join from different parts of the world. In addition to this, the gathering will help the delegates to establish research environment as well as to find the international linkages for future collaboration in their career path. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment.

The three-day conference from 05th to 07th March 2025 was inaugurated by the chief guest of the program Padma Shri Dr. Anil Rajvanshi, Director NARI Phaltan Pune. The challenges faced in these areas and data privacy should be addressed. Such a multi-faceted conference makes it possible." He congratulated 'AISSMS IOIT' for organizing such a wonderful conference consecutively for seventh year in a row through hybrid platform and wished the best for it. President of the program, Honorable secretary AISSM Society Shri. Malojiraje Chhatrapati on behalf of AISSM Society sent a greeting message to the guests and attendees and wished the conference a grand success.

AISSMS Joint Secretary Shri S. P. Shinde highlighted the reasons for organizing the conference and threw light on the proceedings of the conference he said that budding engineers should take the benefit of such conferences to encourage knowledge sharing and be enlightened about innovative ideas. At the time of inauguration Honorable guests and keynote speakers Dr. Deepak L. Waikar Chairperson- IEEE Education Society (EdSoc), Chapter, Singapore, AISSMS Joint Secretary Shri S. P. Shinde, AISSMS Treasurer Mr. Ajay Patil, IEEE Pune Division and IEEE Pune section Chair Mr. Amar Buchade were present. Technical program chair Dr. Minakshi Thalor shared that the conference has received overall 1505 papers out of which 193 research papers have been registered for presentation and publication. Dr. Mousami Vanjale anchored the function while General chair Dr. P. B. Mane presented the vote of thanks.

Technical Summary

ESCI 2025 is a three-day conference that was organized to provide a platform for researchers, academicians, and industry professionals to share their research findings and experiences. The conference had three main tracks: Smart Computing, Internet of Things, and Image and Signal Processing. Additionally, 19 special sessions were also conducted in collaboration with renowned universities across India. This report provides an overview of the conference, including paper submissions, review process, acceptance rates, and key statistics.

Paper Submissions:

The conference received an overwhelming response, with 1505 paper submissions from researchers across the globe. Some of the papers were submitted from other countries like USA, Turkey, Nepal, Bangladesh and many more. The paper submissions were scanned using the IEEE Crosscheck Plagiarism tool, and papers with less than 30% plagiarism and single source similarity of less than 10% were processed for review.

Review Process:

The Technical Program Committee (TPC) members coordinated the overall process of paper submission and resubmission on Microsoft CMT. They also responded to queries from each author during the submission process, coordinated with the Plagiarism checking team and track chairs for the review process, and released the acceptance notifications on time. The review process followed the IEEE policy for plagiarism checking. Papers with plagiarism between 30 to 50% were asked for resubmission, and papers with more than 50% were desk rejected. Papers that passed plagiarism checking were forwarded to the respective track chairs for initial screening. Each paper was assigned two external reviewers, and in case of a tie in the decision of external reviewers, a third external reviewer was assigned to get a clear decision. All authors of rejected papers were notified by the track chair.

7th IEEE International Conference On Emerging Smart Computing And Informatics (ESCI-2025)

Track Acceptance Rates:

The Smart Computing track, handled by Dr. S.N. Zaware and Dr. A.S.Chavan, received 90 paper submissions, of which 109 were finally accepted. The Internet of Things track, handled by Dr. A.A. Shinde and Dr. V.V. Kale, received 286 paper submissions, of which 90 were accepted after the final screening. The Image and Signal Processing track, handled by Dr. M.P. Sardey and Dr. N.S.Warade, received 362 paper submissions, of which 88 were finally accepted. The special sessions, coordinated by Dr.S.S.Shingare and Dr.D.S.Zingade with their team, received 157 paper submissions, of which 24 were finally accepted.

Acceptance Rates:

Out of the 1505 paper submissions, the TPC team released the acceptance notification for 329 papers. A total of 193 papers were registered successfully with the active involvement of the registration team. The acceptance ratio of ESCI2023 is 21.8%.

Post-Conference:

All accepted and presented papers will be forwarded for inclusion in the IEEE Xplore digital library (indexed by Scopus) with the support of the Publication team.

Pre-Conference Tutorials and Keynote Sessions:

The conference had six pre-conference tutorials on 5^{th} march 2025, and five keynote sessions were organized during the three days of the conference.

Раре	Paper Summery					
Total Papers submission	1505					
Accepted papers	329(Acceptance ratio:21.8%)					
	_					
Registered papers	193					
Papers from abroad	56					
Papers from India	1449					
Danara autoida Maharashtra	773					
Papers outside Maharashtra	773					
No. of special sessions	19					
,						
Total no. of papers received through special sessions	157					
Papers registered through special sessions	24					
Sessic	on Summery					
	,					
No. of paper presentation sessions	32					
Keynote sessions	3					
Tutorial sessions	7					

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Pre-conference Tutorial					
Topic- Role of Automation in Inc	lustry	Speaker(With designation)			
		Mr. Sourabh So	nı		
		Automation Trainer			
		Just Engineering			
Day- Tuesday	Date- 04 th Mar. 2025 Time 10.30am to 12pm		Time 10.30am to 12pm		
Coordinators-	Link- Offline in	room no.213			
Ms. Saba K M Shaikh					

Abstract of Session/keynote/Special session/tutorial -

In this pre-conference tutorial, the speaker introduced automation, outlining its role in the industry and explaining its key components. He then explored the latest trends in the field before concluding with compelling reasons to consider automation as a career path.

Total No. of Participants- 103





Dr. A.D.Shiralkar welcoming the PCT speaker Mr Sourabh Soni



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PCT speaker Mr. Sourabh Soni presenting his talk



Sponsors Fateh video shown before PCT.

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7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2025) Pre-conference Tutorial				
Topic- Robotic Process Automation (RPA) Speaker: Mr.Bapu D.Arkas (Manager, ProAzure Software Solution Ltd, Pune)				
Day- Tuesday	Date- 04/03/2025	Time- 10.00 am to 12.00 pm		
Coordinators- Mr. P. U. Palkar				

Abstract of Session/keynote/Special session/tutorial -

Abstract -Robotic Process Automation (RPA) Is The Automation Of Tasks And Routines That Are Followed By Humans, Which Can Be Instructed To A Machine. As It Is A Mundane And Repetitive Task, If The Process Is Gone Through Thoroughly, And Key Modules Are Identified Of The Specified Task, Then Those Modules Can Be Programmed In A Robot, Who Will Perform That.

What is RPA?

RPA (Robotic Process Automation) is the technology that enables a software program to mimic human actions while interacting with computer applications to Accomplish required tasks. Some human interactions that can be automated are: Keyboard inputs, Mouse movements and Clicks, Reading computer screen.

Introduction to Panels: The User Interface

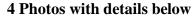
- UiPath Studio contains multiple panels for easier Access to specific functionalities.
- Ribbon Tabs
- Title Bar
- Designer Panel
- Command Palette
- Variables Panel
- Arguments Panel

Type Of Workflows

- Sequences
- Flowcharts
- State Machine
- Global Handler

Total No. of Participants-96

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A warm welcome to our pre Pre-conference Tutorial guests Mr.Bapu D.Arkas (Manager, ProAzure Software Solution Ltd, Pune)



Robotic Process Automation (RPA) Hands On Session Attending Faculty and Students.

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Pre-conference Tutorial			
Topic-The Role of Remote Sensing in Modern Meteorology and Climate Research		Speaker(With designation): Dr. Kaustav Chakravarty Scientist F,Indian Institute of Tropical Meteorology, Pune,India	
Day-Tuesday	Date-04/03/202	5	Time:10-12pm
Coordinators-Mrs Shilpa P. Pimpalkar	Link-https://tinyurl.com/ESCI-2025-Pre-Conf-Tut-CS		

Abstract of Session/keynote/Special session/tutorial -

Remote sensing has revolutionized meteorology and climate research by enabling precise, large-scale observations of atmospheric, oceanic, and terrestrial systems. Satellite and ground-based technologies play a pivotal role in weather forecasting, climate modeling, and extreme event detection. Advancements in multispectral, hyperspectral, and microwave sensing enhance the monitoring of atmospheric composition, cloud dynamics, and greenhouse gas emissions. The integration of AI and machine learning further improves data analysis and prediction accuracy. By providing critical insights into climate variability and long-term trends, remote sensing supports scientific understanding, policy decisions, and disaster resilience strategies.

Total No. of Participants-100



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Participants attending session in classroom

Pre-conference Tutorial			
Topic- Recent Trends in 6G – The N in Wireless Communication	ext Frontier	•	designation) Dr.Raghvendra Pal, lessor, Electronics Engineering VNIT, Surat
Day-Monday	Date-04/03/2	2025	Time-10.00-12.00PM
Coordinators-Dr.Harshada Magar	Link- https:/	tinyurl.com/ESC	CI-2025-Pre-Conf-Tut-EnTC

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Abstract tutorial -

The evolution of wireless communication has reached a transformative phase with the advent of 6G, the next generation technology expected to redefine connectivity beyond 5G. This provided an insightful overview of recent trends in 6G, highlighting key technological advancements, research challenges, and potential applications. Fundamental enablers such as Terahertz (THz) communication, reconfigurable intelligent surfaces, AI native networks, quantum communication, and integrated sensing and communication, massive machine type communication, and extreme connectivity for futuristic applications like holographic communication, immersive extended reality, and autonomous systems explored. The session covered sustainability aspects, including energy efficient network architectures and green communication strategies. By the end of this talk, students gain a comprehensive understanding of how 6G is shaping the future of wireless networks and the exciting opportunities it presents for research and innovation.

Total No. Of Participants-112

4 Photos with details below



Welcome speech by HOD Dr.M.P.Sardey



PCT Started at Classroom 305

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E&TC students attending PCT

Pre-conference Tutorial			
Topic- AI-Driven Clickstream Analytics Speaker: Vinothkumar Kolluru			inothkumar Kolluru
for User Segmentation and Behavioral		(Senior Data Scientist at Fractal	
Insights		Analytics)	
Day- Tuesday	Date: 04-03-2025		Time: 10 am
Coordinator-	Link- https://tinyurl.com/ESCI-2025-Pre-Conf-Tut-		
Mrs. Aparna A. Veer	AInDS		

Abstract of Pre-conference Tutorial:-

In today's digital era, vast amount of user interaction data were generated through clickstream analytics, offering an unprecedented opportunity to decode user behavior and intent. Artificial Intelligence (AI) revolutionized the way we analyzed these intricate datasets, enabling businesses to move beyond traditional metrics and gain deep, actionable insights into customer mindsets.

The Pre-conference Tutorial explored how AI-powered models, including deep learning and unsupervised clustering techniques, could be leveraged to segment users based on their browsing patterns, dwell time, click sequences, and engagement behaviors. By integrating Natural Language Processing (NLP) and predictive analytics, organizations could build hyperpersonalized experiences, optimize conversion strategies, and anticipate user needs in real time.

Furthermore, we discussed the ethical implications of AI-driven behavioral analytics, emphasizing the importance of data privacy and responsible AI practices. Attendees gained



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insights into real-world applications across industries e-commerce, fintech, healthcare, and more where AI-powered clickstream analysis was redefining customer engagement.

Total No. of Participants-75









D	C		1
Pre-	confere	nce Lu	torial

Topic- Practical Insights into Cybersecurity: Securing Digital Identities in a Complex World **Speaker(With designation)**

Mr. Premsai Ranga

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		Vice President	T. Rowe Price
		Fellow in Cyber	Security and Identity
		Management, M	laryland ,USA
Day- Tuesday	Date - 04/03/2	2025	Time - 10.00 am to 12.00 pm
Coordinators- Dr. M. K.	Link- OnLine		
Pathak			

Abstract of Session/keynote/Special session/tutorial -

As digital transformation accelerates, securing digital identities has become a critical concern in the face of increasingly sophisticated cyber threats. "Practical Insights into Cyber security: Securing Digital Identities in a Complex World" explores the multifaceted challenges organizations and individuals face in safeguarding personal and professional online identities. This session helps to understand the best practices for identity protection, including multi-factor authentication, biometric verification, and adaptive security measures. It also discusses the evolving nature of cyber threats, the role of emerging technologies like AI and blockchain in identity management, and the need for a holistic, proactive approach to mitigate risks. Ultimately, the session provides actionable insights for enhancing digital identity security, ensuring privacy, and fostering trust in an interconnected world.

Total No. of Participants-

TY Students – 45 students SY Students – 73 students

4 Photos with details below



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Pre-conferenceTutorial			
Topic- Ultralight Helicopters for Indian		Speaker(With designation)	
Applications		Dr. Enti Rang	a Reddy,
		Chairman & N	Managing Director, Legend
		Technologies	(India) Pvt. Ltd.
Day- Tuesday	Date 4 th March 2025		Time 10:00 to 12:00
			noon
Coordinator- Gayatri	Link- https://tinyurl.com/ESCI-2025-Pre-Conf-		
Mawale	Tut-FE		

Abstract tutorial -

Dr. Enti Ranga Reddy briefed about history of manufacturing of Helicopters in India. He shared the glorious journey of the "Legend Technologies (India) Pvt. Ltd." till now. He spread light on aerospace design, manufacturing, assembly, and tooling. He also discussed about specialized areas such as SPM design and manufacturing, test rig development, and commissioning for numerous aerospace projects in India. He further explained several domestic projects such as the Light Combat Aircraft (LCA), Advance Light Helicopter (ALH), Light Combat Helicopter (LCH), Jaguar Aircraft and IJT 36 as also export projects like Boeing and airbus. He shared his experience being key part of manufacturing, assembly and testing of the ISRO projects like PSLV, GSLV and RLVTD and Gaganayaan Projects, also Tooling and Assemble manufacturing of DRDO projects like Lakshya UAV, Pruthvi missiles and stealth bomber (SWiFT) UAV, along with CSIR labs projects like SARAS and HANSA and BEL for sliprings, and all critical & precious components.

His talk truly took students and audience to next level of inspiration and pride.

Total No. of Participants-20

4 Photos with details below

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Pre Conference Tutorial by Dr. Enti Ranga Reddy



Dr. Enti Ranga Reddy explaining Journey of Legend Technologies (India) Pvt. Ltd



Dr. Enti Ranga Reddy explaining specifications of Ultralight Helicopters for Indian Applications



Students engaged in Pre Conference Tutorial

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KEYNOTE SESSION

Keynote session - Online			
Topic-: Investigation on Security of Underwater		Speaker(With designation)	
Acoustic Networks		Maode Ma	
		(Senior Member, IEEE)	
		Professor	
		College of Engineering, Qatar University,	
		Doha, Qatar	
Day-Wednesday	Date: 05-03-2025		Time: 4pm to 5.15pm
Coordinators-Ms Saba K M Shaikh	Venue/Link-Multipurpose Hall/Online		
	Link: https://tinyurl.com/ESCI-2025-Keynote-2		

Abstract of Keynote Talk

Underwater acoustic networks (UWANs) are often deployed in unattended or hostile environments and face many security threats, while many applications over UWANs require secure communication, such as costal defense, submarine communication and harbor security.

Peculiar features of UWANs such as very constrained resources pose big challenges in defending the UWANs against security threats. Many solutions to address the issue of security in UWANs have been published.

In this talk, the speaker provided a concise survey on the UWAN security by first discussing the fundamental of network security in general and the main UWAN security threats faced by the physical layer to the transport layer. Then, some countermeasure schemes against the typical UWAN security threats were reviewed along with secure UWAN protocols and cryptographic primitives designed for the UWANs.

At the end of the talk, some potential open research issues were summarized to explore future research topics. This session could trigger the attention to the issue of security of the UWANs and promote further research collaboration in UWANs.

There were a total of 90 participants were present online for this keynote talk.



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Mrs. Saba Shaikh introducing Dr. Maode Ma

Dr. Maode Ma presenting the keynote

Keynote session (Physical Mode)Hy	brid		
Topic- Smart Sensing Systems and Precision Agriculture	d AI for	Lisbon, Senior Research	Postolache, ISCTE- University Institute of
Day-Thursday	Date: 06-03-2025		Time: 11am to 12.30pm
Coordinators-Ms Saba K M Shaikh	Venue/Link-Multipurpose Hall Link: https://tinyurl.com/ESCI-2025-Keynote-03		

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Abstract of Keynote Talk

The precision agriculture (PA) combines technologies and practices that assure the optimization of the operations associated agricultural production through specific farm management.

Regarding the employed technologies distributed smart sensing systems characterized by fixed and mobile nodes (based on remote sensing and Unnamed Aerial Vehicle (UAV))) are used to turn the farming operations into data, and to optimize the future operation based on data driven models. Edge and cloud computing platforms that are capable to run AI/ML algorithms may contribute to help on human decisions. This new mode to act in agriculture based on digital transformation through the combination of technologies such as smart sensors, cloud and mobile computing, data science is related to the fact that classical decisions cannot be applied nowadays when the cultivated areas are much extended, and the adverse meteorological events are occurring frequently that conduct to mismanagement with yield losses.

In this talk the speaker explained the meaning of precision agriculture in the context of uncertainty associated with climate change. The IoT ecosystem technologies for precision agriculture were discussed including multimodal sensing and artificial intelligence. Referring to the sensing in-situ and remote sensing are considered special attention being granted to the soil characteristics (moisture and macronutrients concentration). The agriculture UAV imagery and satellite imagery solutions and the relation between the data coming from the smart sensors distributed in the field and acquired images using multispectral imagery techniques were part of the presentation. Metrological characteristics of smart sensors and the test and calibration procedure for in-situ and remote measurement smart sensing systems were part of the talk.

Another important technology associated with innovative precision agriculture is related to development of AI data driven models for farming operations considering data coming from different source. Embedded AI solutions and examples of AI algorithms applied to the precision agriculture were also discussed.

There were a total of 85 participants were present physically for this keynote talk.



Mrs. Saba Shaikh introducing Dr. Octavian Postolache Dr. Octavian Postolache presenting the keynote

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Dr. Octavian Postolache interacting with the attendees during question answer session.



Group	pnoto	at the	ena oi	session.

Keynote session – Online			
Topic - Attributes of a Digital Teacher as		Speaker(With designation)	
Envisioned in Digital University		Dr. Deepak L. W Chair, IEEE Educa	aikar, tion Society Singapore Chapter
Day-Wednesday	Date: 05-03-2025		Time: 12pm to 1.15pm
Coordinators-Ms Saba K M Shaikh	Venue/Link-Multipurpose Hall Link: https://tinyurl.com/ESCI-25-Inaguration-Keynote-1		

Abstract of Keynote Talk

The development of digital teachers is one of the key components for the proposed digital university. Suggestions from the major stakeholders were invited to ascertain the essential and desirable attributes of such digital teachers. Experience of colleges, institutions, and universities in online and/or remote teaching amid the global pandemic were also considered. Various online platforms and software proposed by EdTech Companies were also included. Digital divide, inadequate training and experience, and emotional aspects affected the mass customization. What role Automation, Analytics, Artificial Intelligence, Augmented reality, and Agile Technology can play in shaping the key attributes of the digital teacher was the theme of the

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keynote. Main challenges, tangible and ntangible benefits and limitations of such digital teachers were also highlighted.

There were a total of 106 participants were present online for this keynote talk.

2 Photos



Mrs. Saba Shaikh introducing Dr. Waikar Audience attending onlline keynote 1 of Dr. Deepak Waikar

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Special Sessions

Session-1		
Track - Smart Computing	Session Chair Dr. Tara	anpreet Singh, Amity University, Jaipur
Day: Wednesday	Date: 05/03/2025	Time: 2.00 pm to 4.00 pm
Session Coordinators-	Link- https://tinyurl.com/D	DAY-1-Sess-1-SC
1. Dr. Sarika Nitin Zaware		
2. Dr. Saurabh Sumant		
Shingare		

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 1: Smart Computing was successfully conducted on the First day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 5th March 2025.

Total 4 Papers were presented in this session.

Paper ID: 56: Shielding Software: The Vital Role of Headers in Ensuring Application Security

Paper ID:116: Capacitated Vehicle Routing Problem using Ant Colony Optimization and PuLP Library

Paper ID:126: Effective Vulnerability Reconnaissance for Content Management System Using SkipFish

Paper ID: 130: HBPSO BASED RESOURCE SCHEDULING FOR OPTIMIZATION OF COST AND MAKESPAN IN CLOUD DATA CENTERS

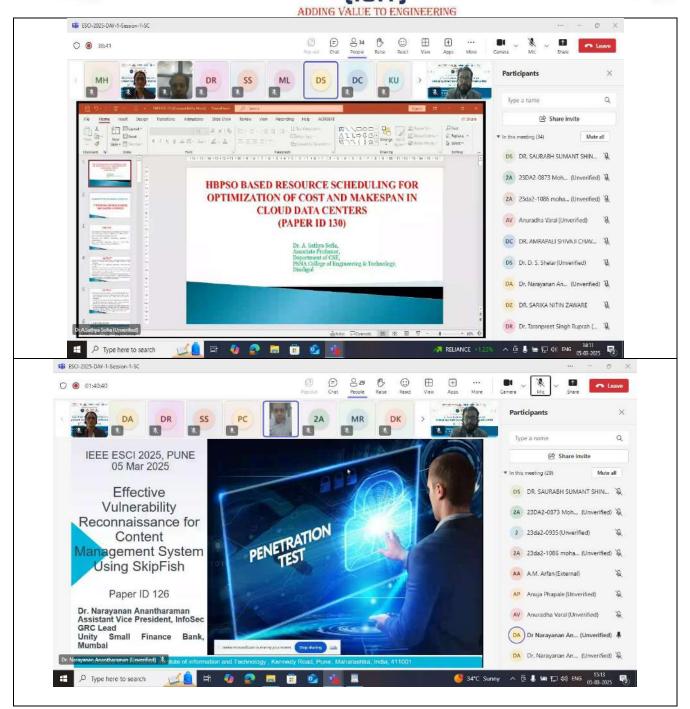
Session Chairs Dr. Taranpreet Singh evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.

Total no. of Participants- 04 Presenters and 38 Attendees



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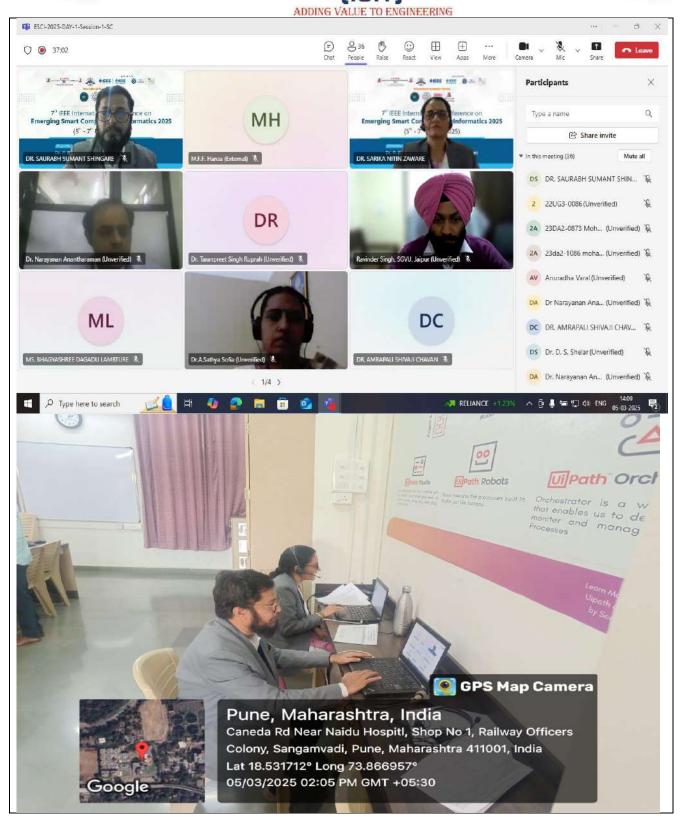






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Summary of paper presentation

Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	Smart Computing Session-1	130	HBPSO BASED RESOURCE	A Sathya

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A	AND MAKESPAN IN CLOUD	
	DATA CENTERS	

Session-2			
Track - Image & Signal Proce	essing	Session Chair: Dr. Amrita Ruperee	
		Vidyawardhini o	college of engineering and
		Technology, Va	sai
Day: Wednesday Date: 05/03/202		25	Time: 2.00 pm to 4.00 pm
Session Coordinators- Link- http		yurl.com/DAY-1	-Sess-2-ISP
1. Dr. Shagufta Sheikh	_		
2. Dr.D.S.Zingade			

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 2:**Image & Signal Processing** was successfully conducted on the first day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 5th March 2025.

Total 7 Papers were presented in this session.

Paper ID:88 Securing Automotive with Iris Pattern Recognition

Paper ID:145 Butterfly Optimization and Deep Learning to Classify Heart Sound Signal

Paper ID:365 Ai Driven Rat Detection For Warehouse

Paper ID:188 Spatial-Scale Sensitivity In SEBAL Evapotranspiration Estimation For Crop Health Monitoring With Sen.

Paper ID:408 Classification Of EMG-Based Hand Gestures Using Time and Frequency Domain Features

Paper ID:471 Copyright Information Embedding Using steganography with Binary Lower Triangular Matrix

Paper ID:47 Reconstruction of 2D Images into 3D Model

Session Chairs Dr. Amrita Ruperee evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.

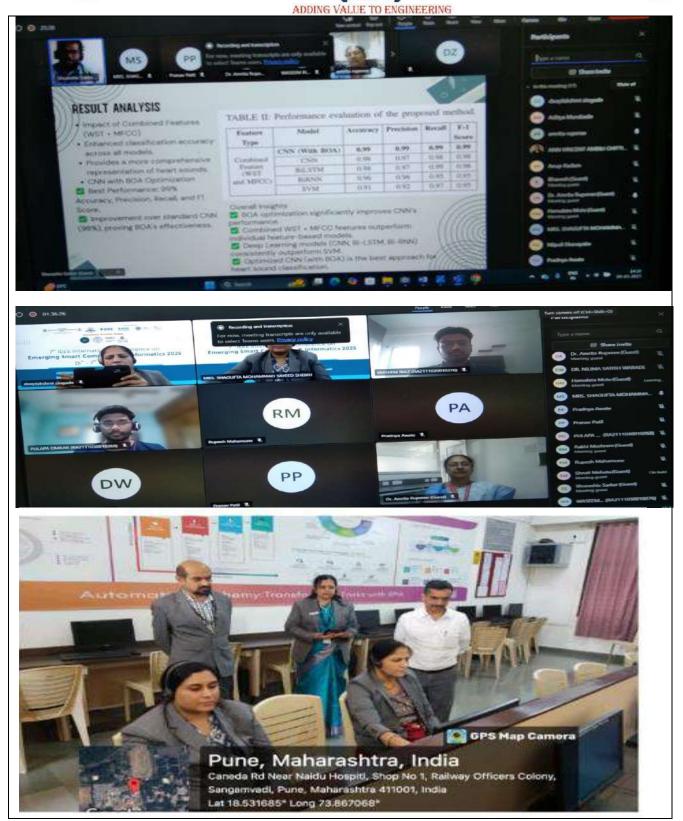
Total no. of Participants- 07





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Summary of naner presentation

Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presente r
1	Image & Signal Processing Session2	408	Classification Of EMG-Based Hand Gestures Using Time and Frequency Domain Features	Rupesh Mahamu ne

ession	

Track - Smart Computing	Session Chair Dr. Rani Kumari, Associate	
	Professor, Chitkara University, H.P.	

Day: Wednesday **Date:** 05/03/2025 **Time:** 2.00 pm to 4.00 pm Link- https://tinyurl.com/DAY-1-Sess-3-SC

Session Coordinators-

1. Session Coordinator: Dr. Chetan Nimba Aher (9503443501)

2. Session Coordinator: Mr. Rahul Namdeo Jadhav (9960622886)

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 3: Smart Computing was successfully conducted on the third day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 5th March 2025.

Total 6 Papers were presented in this session.

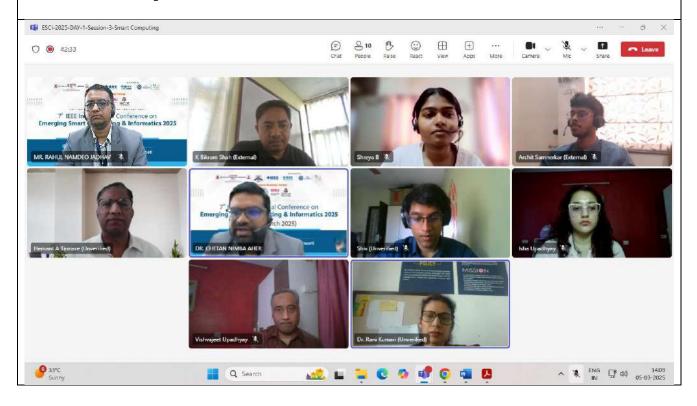
- 1. Paper ID: 155, Deep Learning for Diabetic Retinopathy Detection Using Preprocessed Fundus Images and Inception-v3
- 2. Paper ID: 164, Algorithmic Optimization of Coupon Pooling Application: A Machine Learning Perspective
- 3. Paper ID: 165, Human Perceptual Biases and their Analogous Prevalence in Artificial Intelligence Systems: Bias Miti

- 4. Paper ID: 170, Enhancing Passive Index Index Index Angent at Ting Volutility Harvesting with Machine Learning Models for Accredited by NAAC with "A+" Grade | NBA 5 UG Programmes
- 5. Paper ID: 172, Binary Learning Cooking Algorithm with Relief for Feature Selection of High-dimensional Gene
- 6. Paper ID: 1393, Efficient Source-Level Waste Segregation Using CNN-Based Waste Classifier with IoT-Enabled Smart Bins and Mobile Application

Session Chairs Dr. Rani Kumari, Associate Professor, Chitkara University, H.P. evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.

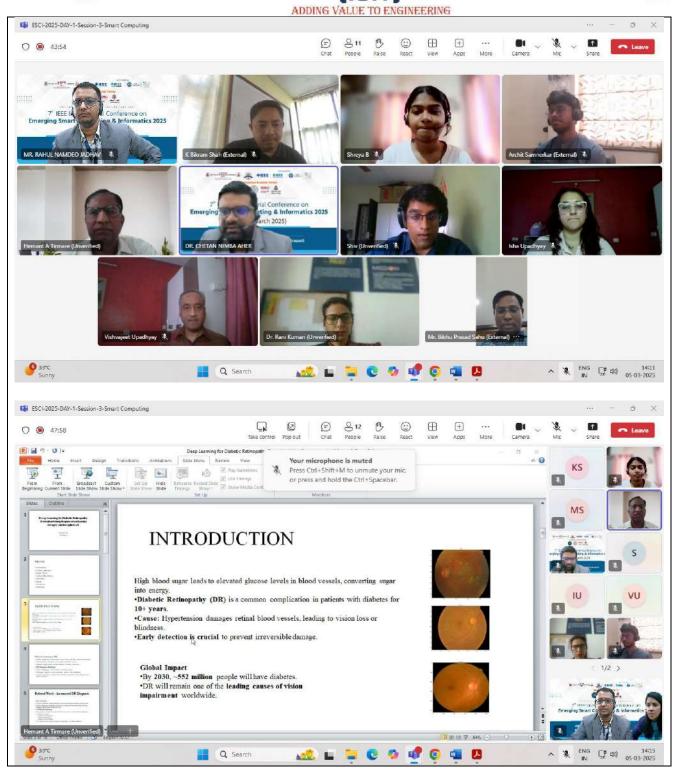
Total no. of Participants- 14





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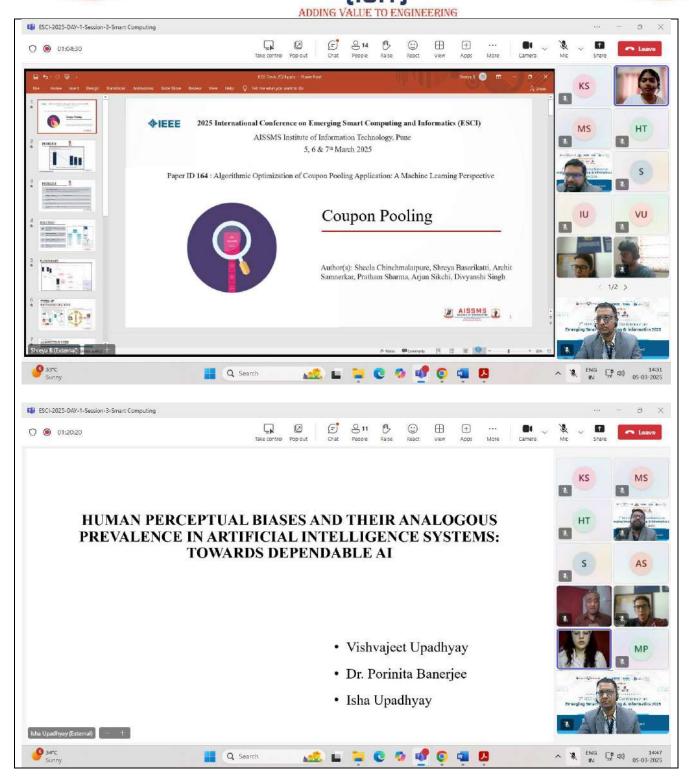






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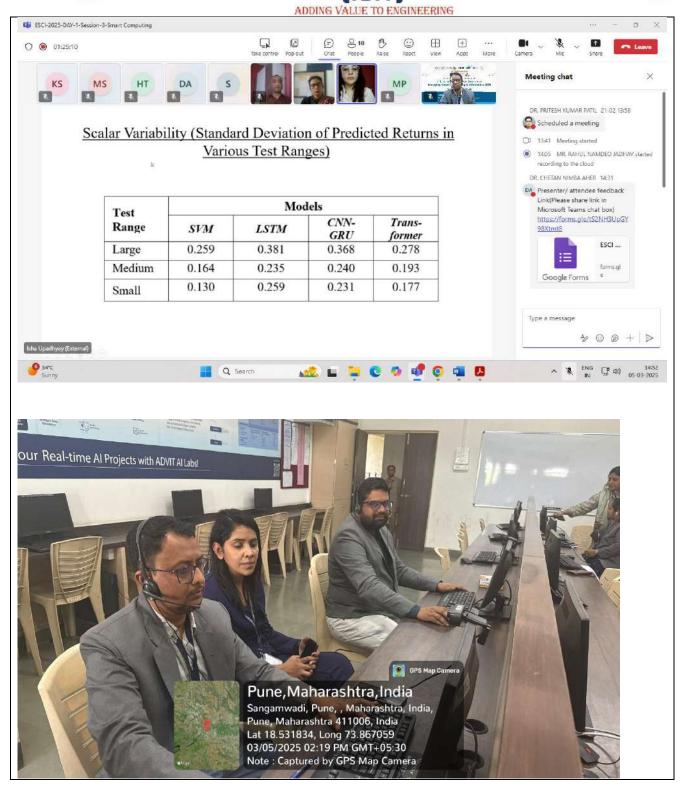






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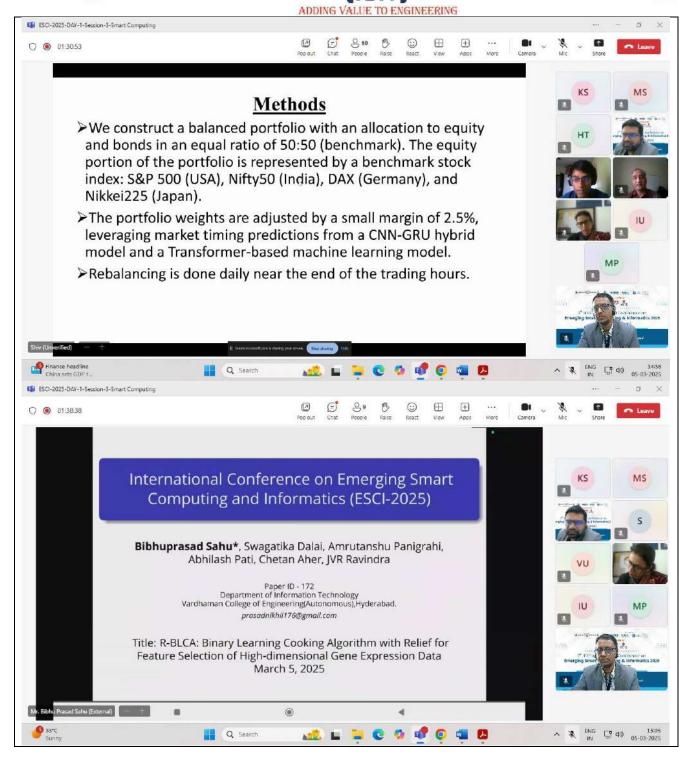






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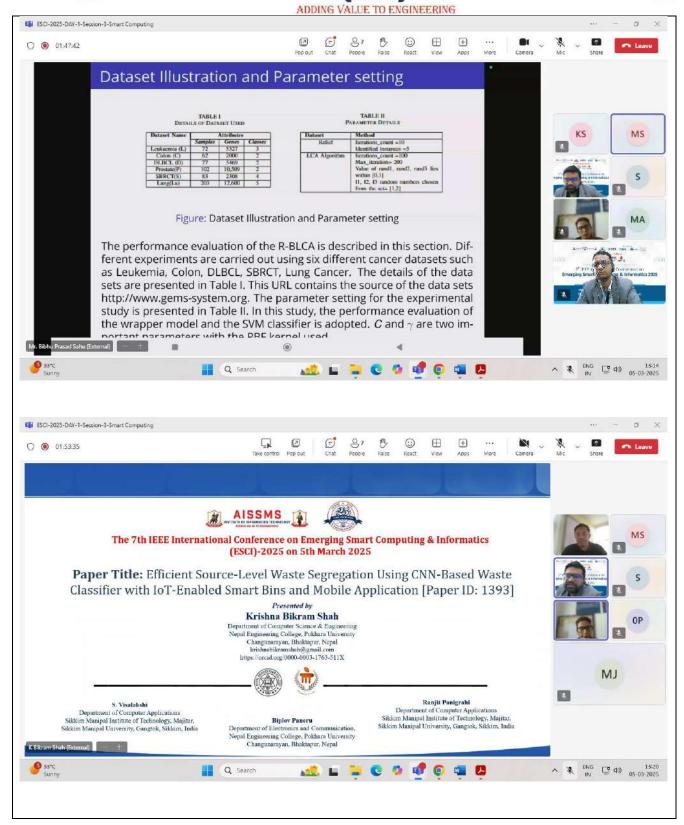






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Summary of paper presentation

Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	Smart Computing Session-3	1393	Efficient Source-Level Waste Segregation Using CNN-Based Waste Classifier with IoT-Enabled Smart Bins and Mobile Application	Krishna Bikaram Shah

Session-4					
Track - IoT		Session Chair Dr. Umesh Pawar, SOCSE Sandip			
		Univer	rsity Nashik, Maharashi	tra	
Day: Wednesday Date: 05/03/20		025	Time: 2.00 pm to 4.00	0 pm	
Session Coordinators- Link-: https://		tinyurl.com/DAY-	1-Sess-4-IoT		
1. Dr. Rakesh Bapu Dhumale					
2. Dr. Veena Suhas Bhende					

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 29: Smart Computing was successfully conducted on the third day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2024): 5th March 2025.

Total 4 Papers were presented in this session.

Paper ID: 4: Hybrid Unified AI-Based Biometric Authentication: A Low-Power, High-Security Scheme

Paper ID:59: A New Maintenance Framework of WSN for Consumer and e-Commerce: A Convergence of AI, ML, and IoT

Paper ID:61: Encryption and Decryption of Different File Formats Using AES

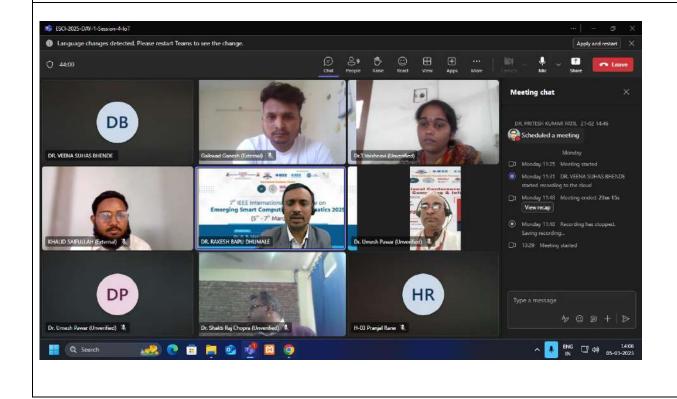
Paper ID: 135: Comparative Analysis of Custom Neural Network Model and VGG-16 for Multiclass Image Classification

Session Chairs Dr. Umesh Pawar evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.



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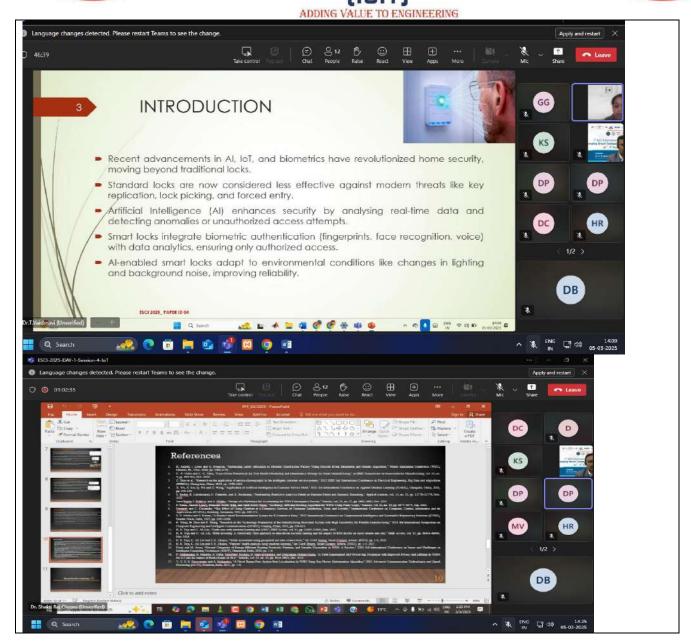
Total no. of Participants- 04 An Autonomous Institute Affiliated to Savitribai Phule Pune University Approved by AICTE, New Delhi and Recognised by Govt. of Maharashtra Accredited by NAAC with "A+" Grade | NBA - 5 UG Programmes





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Summary of paper presentation

Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name
No				of
				Presen
				ter
1	IoT Session-4	135	Comparative Analysis of Custom	Mr.Kh
			Neural Network Model and	alid
			VGG-16 for Multi-class Image	Saifull
			Classification	ah

Session-5			
Track – Internet of Things		Session Chair Dr. Abhijeet U. Banode	
		Designat	tion: Head of Apple Product
			Development
		Affilia	ation: DISH Wireless Inc.
		Alma Mater: C	Goldey-Beacom College
Day: Wednesday	Date: 05/03/2025	5	Time: 2.00 pm to 4.00 pm
Session Coordinators-	Link- https://tinyu	url.com/DAY-1-Se	ess-5-IoT
1. Dr. Prashant Wakhare			
2. Ms Shubhangi Landge			

Abstract of Session/keynote/Special session/titroffraid to Savitribai Phule Pune University

Technical Oral Presentation Session 5: do The Was Successfully conducted on the first day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 5th March 2025.

Total 6 Papers were presented in this session.

Paper Id -227: A Comprehensive Review Of Performance Optimization In Dynamic Routing Protocols For Wireless Sensor

Paper Id -277: Saathi: Smart Cane

Paper Id -433: Stock Forecasting Using Machine Learning

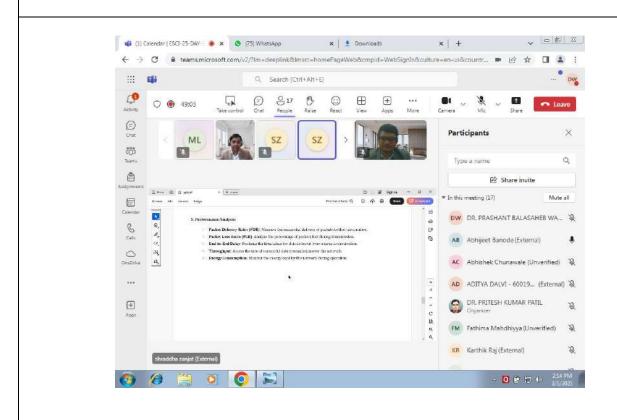
Paper Id -469: Indian Sign Language Detection In Virtual Reality Using Leap Motion Controller

Paper Id -507: Improved Incremental Learning For Classification Using Weight Space Rotation

Paper Id -597: A Sophisticated Framework Designed For Deepfake Detection Using Cnn And Lstm For Enhanced Accuracy

Session Chairs Dr. Abhijeet U. Banode evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

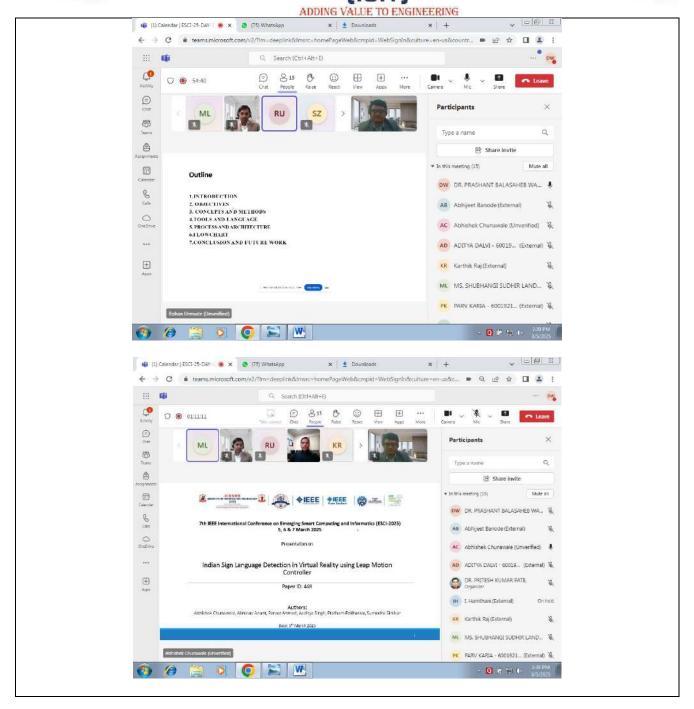
Total no. of Participants- 15





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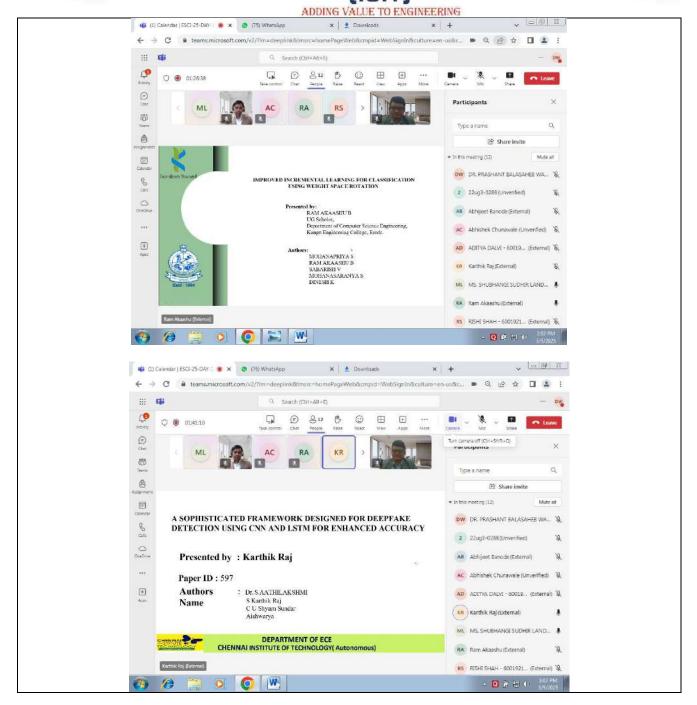






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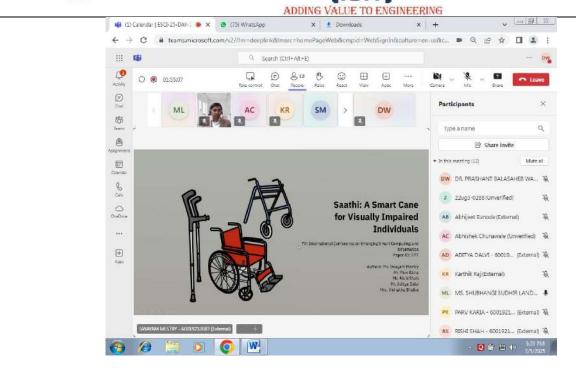






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Summary of paper presentation

Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Internet of Things (session 5)	597	A Sophisticated Framework Designed For Deepfake Detection Using Cnn And Lstm For Enhanced Accuracy	Karthik Raj

Session-6			
Track - Image & Signal Processing		Session Chair	: Dr. Rutuja Deshmukh, D.Y.
		Patil College of Engineering, Akurdi, Pune	
Day: Wednesday	Date: 05	5/03/2025	Time: 2.00 pm to 4.00 pm
Session Coordinators- Link		ttps://tinyurl.com	n/DAY-1-Sess-6-ISP
1. Dr. Meenakshi Anurag Thalor			
2. Ms. Pradnya Dattatraya Bormane			
·			

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 6: Image & Signal Processing was successfully conducted on the 1st day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 5th March 2025.

Total 7 Papers were presented in this session.

Paper ID: 519: Auralize: Text to Tune

Paper ID:873: COP-Detect: An End-to-End Transformer based Enhanced Colon Polyp Detection and Segmentation Framework

Paper ID:888: Implementation of Autonomous Vehicle using Real-Time Image processing and Computer Vision Algorithm

Paper ID: 892: A Web-Based System for QR Code Flag Identification and Decoding with Python and Flask

Paper ID:908: Hand Gesture Recognition for Seamless Presentation Interaction and Media Control Paper ID:922: Segmentation of Brain Tumors in CT Images: A Comparative Analysis Using Convolutional Neural Network

Paper ID:72: Algorithm for preprocessing satellite imagery that uses geometric, atmospheric, and radiometric corr

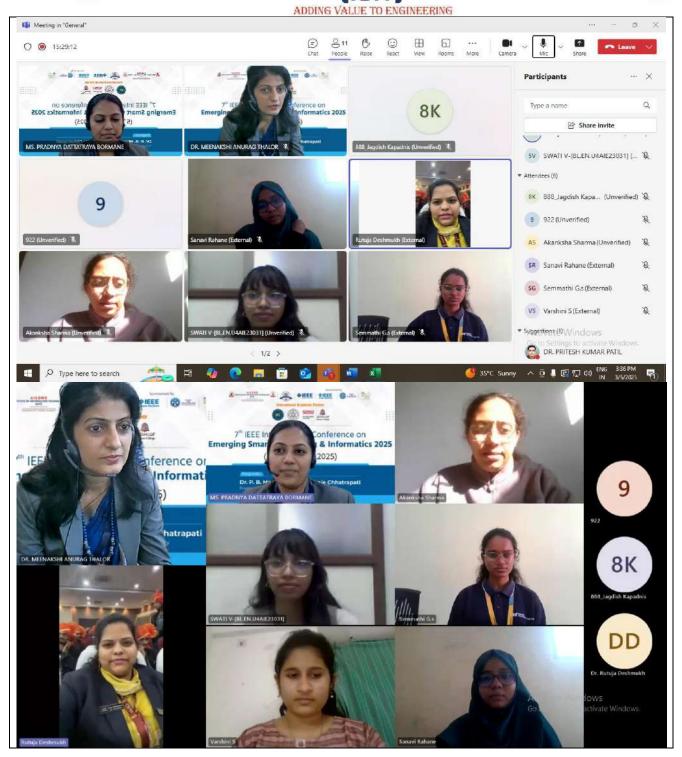
Session Chair Dr. Rutuja Deshmukh evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.

Total no. of Participants- 13



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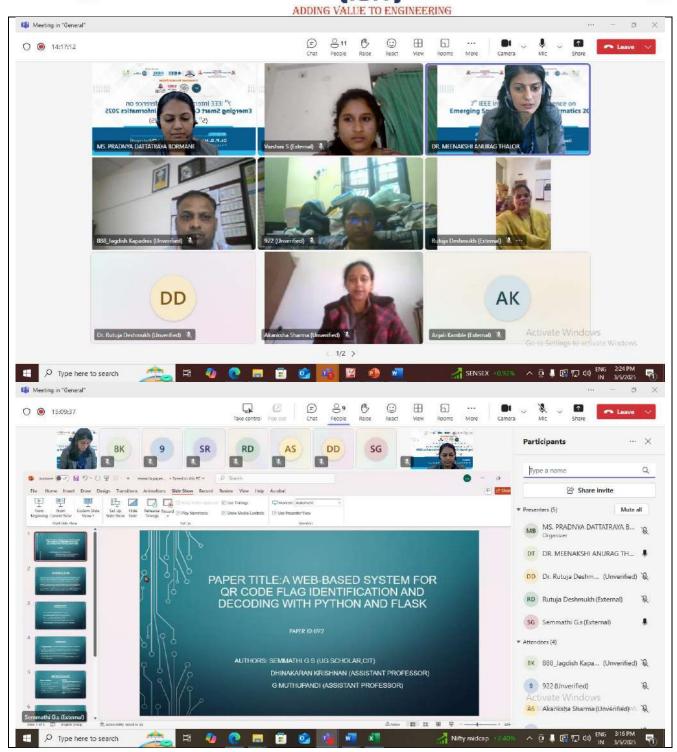






AISSMS NSTITUTE OF INFORMATION TECHNOLOGY (1017)







Summary of paper presentation

Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Image & Signal Processing	72	Algorithm for preprocessing	Akanksha
	Session-6		satellite imagery that uses	Sharma
			geometric, atmospheric, and	
			radiometric correction.	

Session-7				
Track- Image & Signal Processing	Session Chair: Dr. Yuvraj Parkale			
	SVPM'S College of Engineering,			
	Malegaon (Bk), Baramati			
Day:Wednesday	Date:05/03/2025	Time: 2.00pm to 4.00 pm		
SessionCoordinators-	Link- https://tinyurl.com/D	Link- https://tinyurl.com/DAY-1-Sess-7-ISP		
• Dr. Mamta Sanjay Koban				
• Mr. Vikas Janardan Desai				
Abstract of Session-07		·		

Technical Oral Presentation Session 07: Image & Signal Processing was successfully conducted on the First day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 5th March 2025.

Total 7 Papers were presented in this session-7.

Paper ID: 696: Computer Vision-Based Hand Recognition And Gesture Control For Dino Games

Paper ID: 762: Alertcam-An Effective Anomaly Detection System Using Computer Vision

Paper ID:770: Enhanced Wildfire Detection In Forest Area Via Opency With Deep Cnn For Smoke

And Flame Segmentation

Paper ID:787: Coordinate Measurement Machine Using Computer Vision

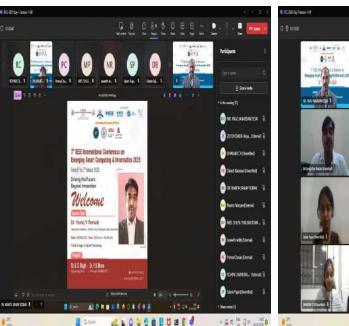
Paper ID:855: DST-M2D: A Dualistic-Series Transformer Framework For Major Depressive Disorder Analysis Using Multi

Paper ID: 869: Wild-Fire And Smoke Detection For Environmental Disaster Management Using Deep Learning: Comparative

Paper ID:3: Revolutionizing Satellite Image Classification using Deep Learning Framework

Session Chairs Dr. Yuvraj Parkale, SVPM'S College of Engineering, Malegaon(Bk), Baramati evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, and Time management.

Total no. of Participants-13

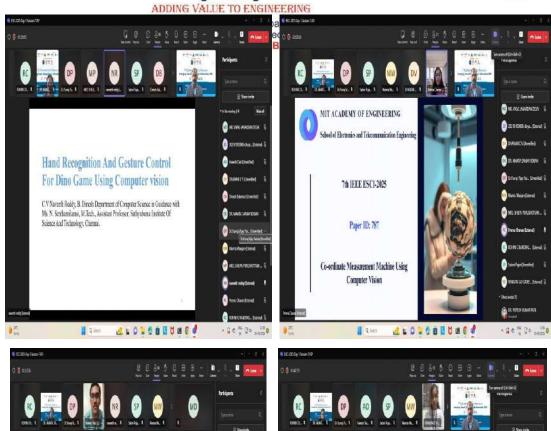




Welcome Speech

Group Photo









Summary of paper presentation

Sr.	Nameof Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Technical Oral Presentation	787	Coordinate	Ms. Prerna Chavan
	Session 07: Image & Signal		Measurement	
	Processing		Machine Using	
			Computer Vision	

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Session-8		
Track - Internet of Things	Session Chair	: Dr. Nirmal K, eBay, California
Day: Thursday	Date: 06/03/2025	Time: 9 .00 am to 11.00 am
Session Coordinators-	Link-: https://tinyurl.com/DAY	Y-2-Sess-8-IoT
1. Dr. Nilima Satish		
Warade		
2. Mrs. Neha Sangram		
Patil		

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 8: **Internet of Things** was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025):

Total 6 Papers were presented in this session.

Paper ID: 894: Hybrid Deep Learning Model for Open-Set Seed Classification Using Hyper spectral and RGB Imaging

Paper ID: 936: Investigation of Cybersecurity Uses of Quantum Computing: Fortifying Encryption Protocols Against Qu

Paper ID:943: Improving Security Detection with Machine Learning: A Scalable Solution for Real-Time Vulnerability

Paper ID: 972: Machine Learning Prognostics For Genetic Disorder Prediction

Paper ID:1000: Sustainable Smart Irrigation in Precision Farming using IoT

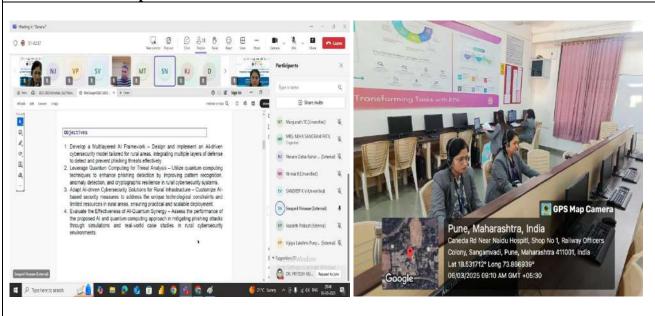
Paper ID:1007: Secure Bitcoin Hardware Wallet Design, Implementation, And Security Analysis

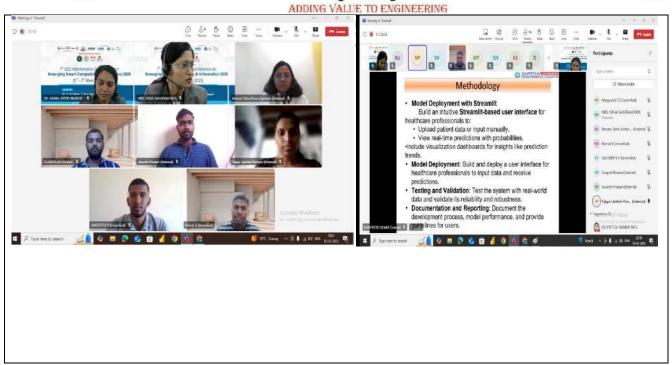
Session Chairs Dr. Nirmal K evaluated the papers based on the parameters: Presentation Quality,

Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.

Total no. of Participants- 06





Summary of paper presentation

Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Internet of Things	1007	Secure Bitcoin Hardware Wallet Design, Implementation, And Security Analysis	Sandeep K V

Session-9					
Track - Image & Signal Processing		Session Chair: Dr. Vikas Gupta, Vidyavardhini			
		college of Engin	eering and Technology		
Day: Thursday	Date: 06/03/202	25	Time: 9:00 am to 11.00 am		
Session Coordinators- 1. Dr. Vineeta Philip	Link- : https://tin	nyurl.com/DAY-2-9	Sess-9-ISP		
2. Ms. Sayali Aditya Belhe					

Abstract of Session/keynote/Special session/turboll and to Savitribai Phule Pune University

Technical Oral Presentation Session Se

Total 7 Papers were presented in this session.

Paper ID: 962: Multi-Task Learning Approach for Detecting Multiple Tumors Using CT and MRI Images

Paper ID:983: Comparative Analysis of YOLOv8 and Faster R-CNN in Fire and Smoke Detection Paper ID:1024: Transfer and Bayesian Learning Approaches for land Use and Land Cover Classification

Paper ID: 1028: Explainable AI for Electronic Health Record (EHR) Analysis and Patient Risk Prediction

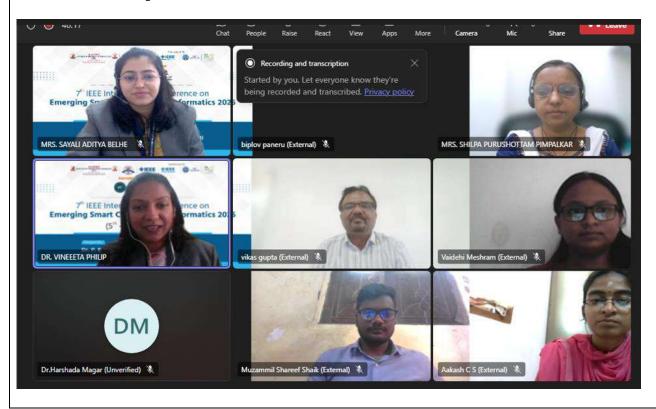
Paper ID:1055: Design and Optimization of RF Self Biased Ku Band LNA with low noise, high gain.

Paper ID:1094: Graph convolutional neural network-based Bone Marrow Classification Paper ID:1441: EEG-Based Brain-Computer Interface for Robotic System Control Using Right-Left Hand Movements with Ensemble Mod

Session Chairs Dr. Vikas Gupta evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.

Total no. of Participants- 07





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Summary of paper presentation

Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Image & Signal Processing session 9	983	Comparative Analysis of YOLOv8 and Faster R-CNN in Fire and Smoke Detection	Mrs.Shilpa Pimpalkar

Session-10		
Track - Smart Computing	mart Computing Session Chair Dr. Varsha K. Harpale, Associate	
	Professor, E&TC, Pimpri Chinchwad	

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An Autonomous Institute Affil@odle@evoftbengineBringInPerney					
Day: Thursday	Acclate: 100002 2025A+" Grade NBA - 5 UG FIME: 1200 am to 11.00 am				
Session Coordinators-	Link- https://tinyurl.com/DAY-2-Sess-10-SC				
1. Dr. Krutuja Shikrishna					
Gadgil					
2. Mrs. Minal Prashant Nerkar					

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 10: Smart Computing was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2024.

Total 4 Papers were presented in this session.

Paper ID: 937: Applications of Artificial Intelligence in Biomedicine and Healthcare: Improving Efficiency, Decision making and tailored patient care

Paper ID:1004: Guava Health Monitoring Using Deep Vision: A VGG-16 Model Implementation Paper Id 1019: LSTM Networks for Improved Environmental monitoring and biodiversity conservation

Paper ID: 1025: Prediction of Remaining Useful Life of the Space Rover Battery Using Fuzzy Adaptive Neural Learning

Paper ID: 1029: Unsupervised Learning Approaches for Workload Optimization in Cloud-Based AI Systems

Paper ID: 1053: Autoencoder-LSTM Ensembles for predictive analysis of financial churn pattern

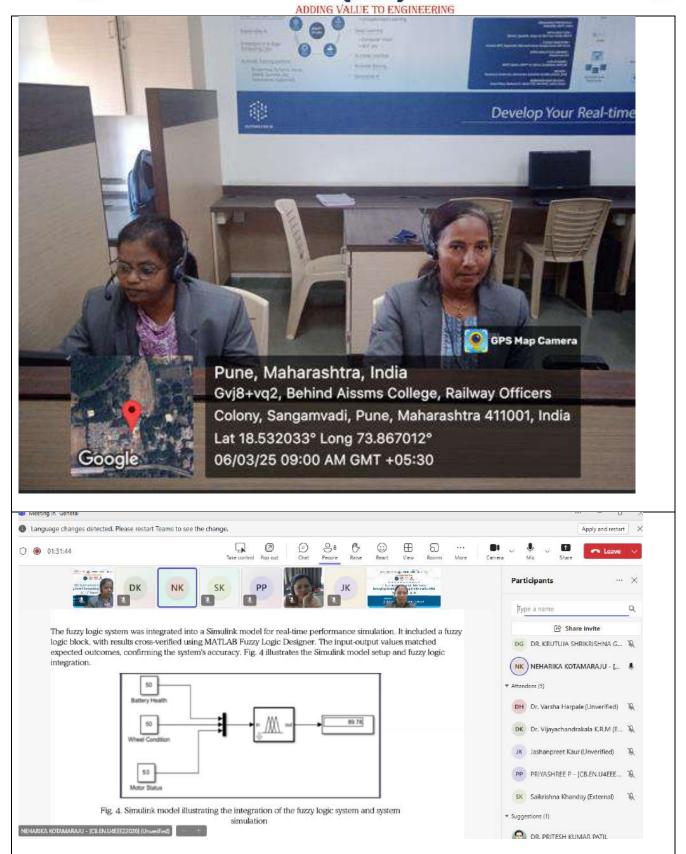
Session Chairs Dr. Varsha Harpale evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.

Total no. of Participants- 09



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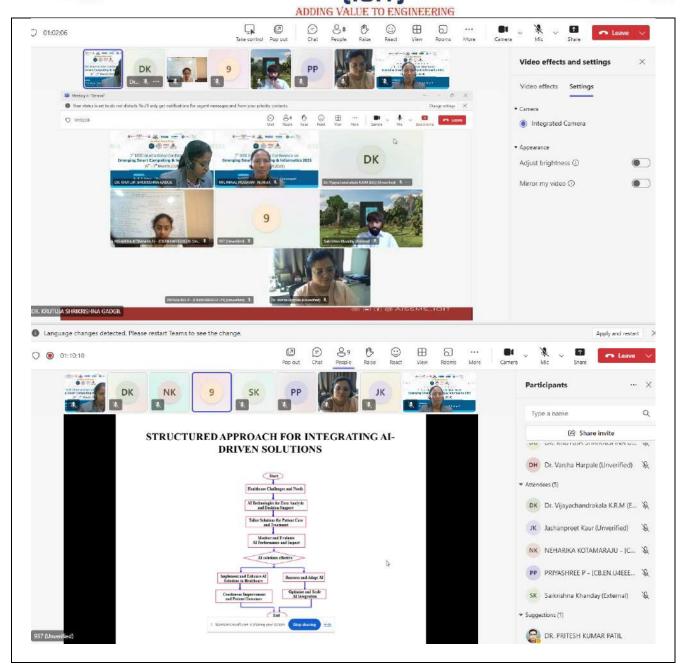






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Summary of paper presentation

Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	Smart Computing Session-10	1004	Guava Health Monitoring Using	Jashanpreet
			Deep Vision: A VGG-16 Model	Kaur
			Implementation	

Session-11	
Track - Smart Computing Session Chair Dr. Renita Ganguly,	
	3D Technologies LLC Jersey City, NJ, USA

An Autonomous Institute Affiliated to Savitribai Phule Pune University 23 9666 Approved by AICTE, New Delhi and Recognised by Govt. of Maharashtra Accredited by NAAC with "A+" Grade NBA - EL ranteamy 80@ieee.org				
Day: Thursday	Date: 06/03/2025	Time: 9.00 am to 11.00 am		
Session Coordinators-	Link- https://tinyurl.com/DAY-2-S	Sess-11-SC		
1. Dr. Amrapali Shivaji				
Chavan				
2. Dr. Poonam Ranveersingh				
Kaswan				

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 11: Smart Computing was successfully conducted on the third day of 6th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2024): 6th March 2024.

Total 6 Papers were presented in this session.

Paper ID: 439: Image Based Cancer Classification Using Metaheuristic Algorithms and Deep Transfer Learning

Paper ID 503: Combining Speech Recognition and Machine Learning for Context-Aware English Pronunciation Assessment

Paper ID:509: Machine Learning-Driven Risk Stratification in Rural Healthcare during the Pandemic: An Ensemble Vot

Paper ID:540: Graph-Based Deep Learning Models for Optimized Routing in Autonomous Networks Using Reinforcement Le

Paper ID:569: Harnessing AI and Machine Learning to Transform English Language Learning Experiences

Paper ID:622: Classification and Labeling Techniques of Educational Resources Based on BERT-CNN model

Session Chairs Dr Renita Ganguly evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

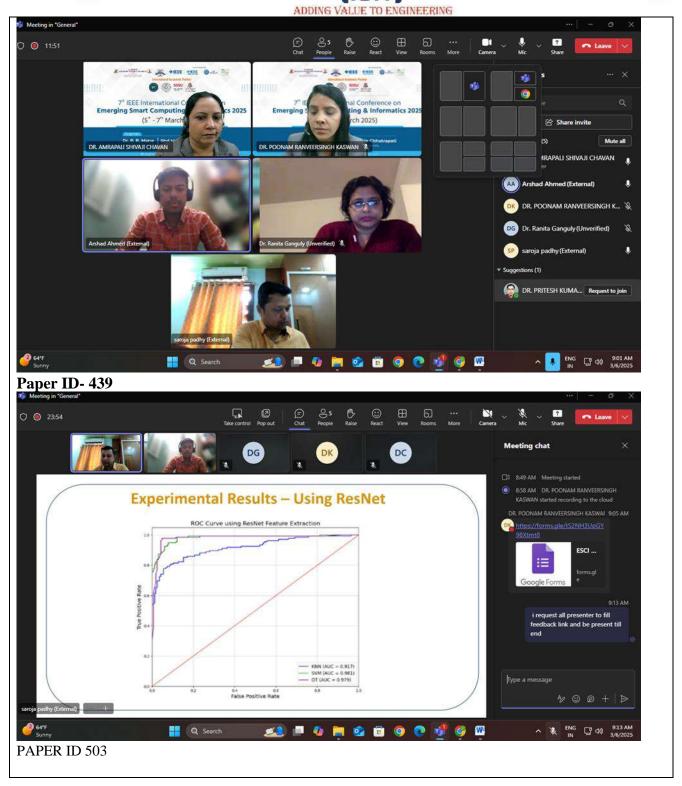
At the end of session, Session Chair conveyed the Best Paper Title.

Total no. of Participants- 06



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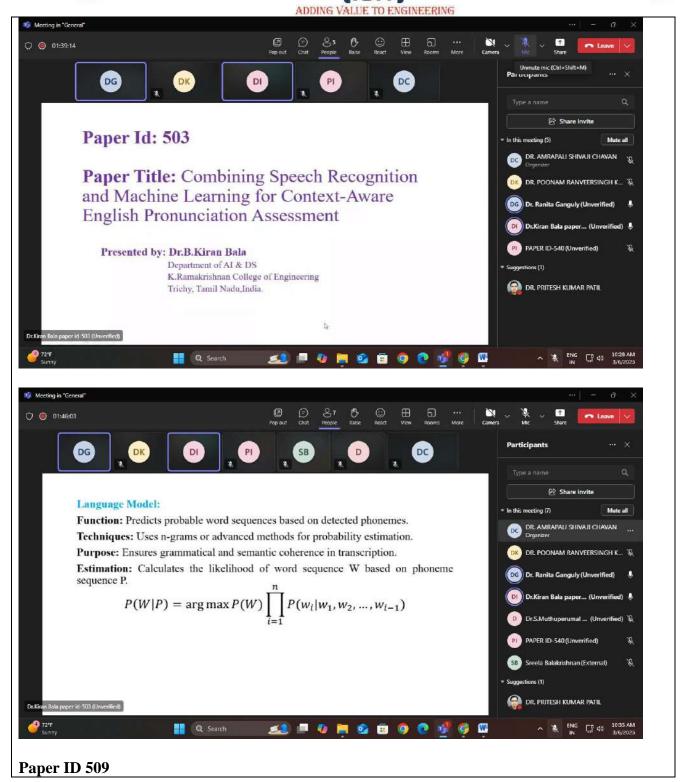






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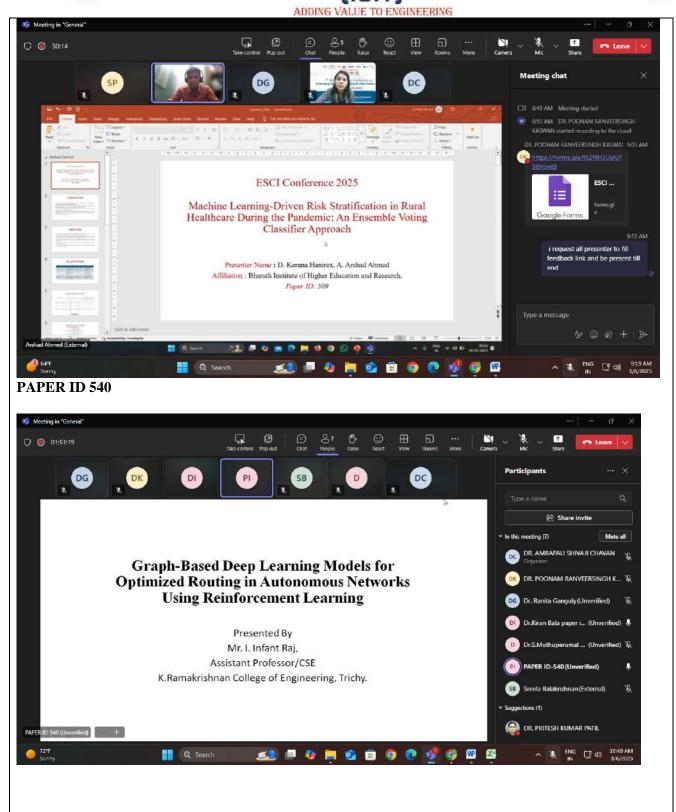


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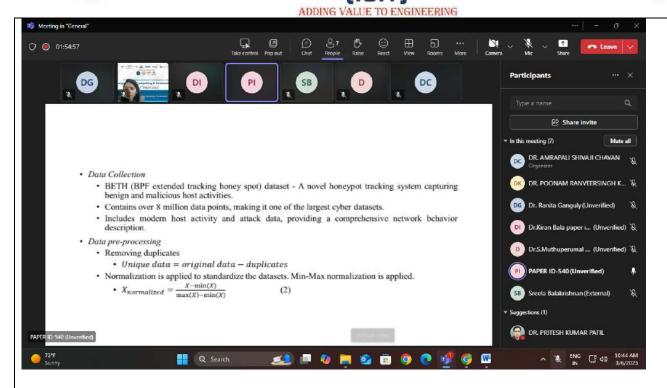






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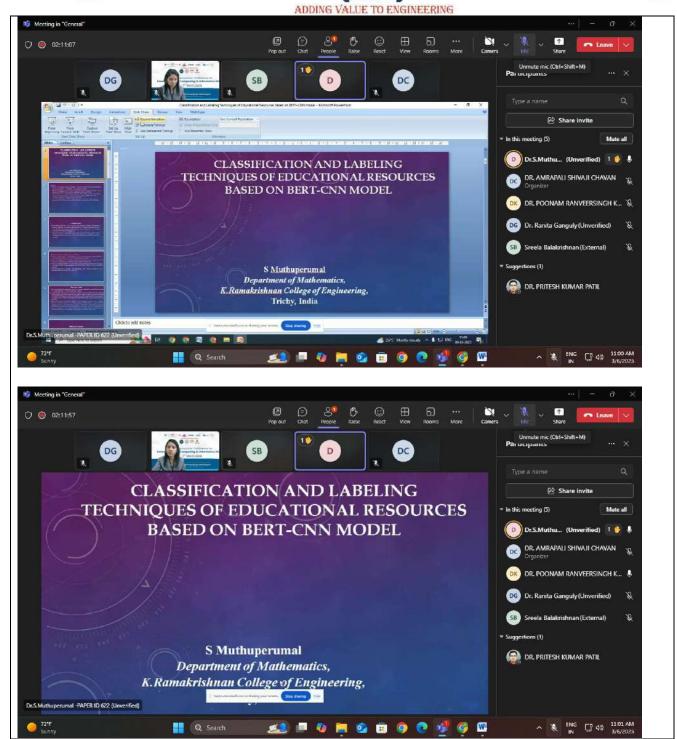
PAPER ID 569





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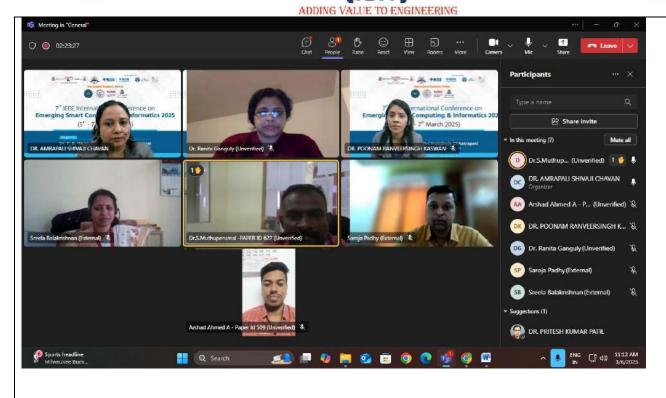






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Summary of paper presentation

_		o- pop p-os			
	Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
	No				Presenter
	1	Technical Oral Presentation	622	Classification and Labeling	S Muthuperumal
		Session 11: Smart Computing		Techniques of Educational	_
				Resources Based on BERT-CNN	
				model	

		model			
Session12					
Track - Internet of Things		Session Chair Dr. Shrikant D. Bhopal		opale	
			Associate Professor		
		D. Y. Patil Agr	iculture and Technical U	Jniversity	
			Talsande, Kolhapur		
Day: Thursday	Date: 06/03/2025	5	Time: 9 .00 am to 11.0	00 am	
Session Coordinators-	Link- https://tiny	rurl.com/DAY-2	-Sess-12-IoT		
 Dr. Sarika Amitraj 					
Panwar					
2. Mr. Prashant Shivling					
Sadaphule					

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Abstract of Session/keynote/Special session/tutorial to Savitribai Phule Pune University

Technical Oral Presentation Sessional 2: NAInternet of Talings was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 6 Papers were presented in this session.

Paper ID: 618: Subterranean Guardian: Tunnel Safety and soil- Borne Emergency Data Transfer

Paper ID: 626: The Automated Fire Suppression System for Electrical Enclosures Using IoT and Embedded Systems

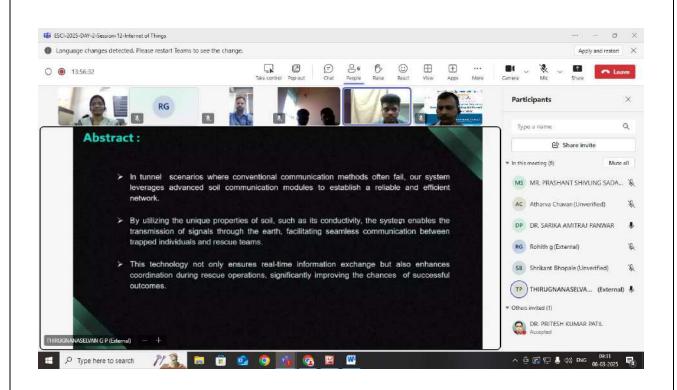
Paper ID: 644: Deep Neural Networks for Advanced Medication Security in IoT-Enabled Smart Robotic Dispensing Cabine

Paper ID: 657: Sustainable Water Management in Precision Agriculture

Paper ID: 714: Dynamic Vehicle Stability Analysis Using IoT Sensors and Bayesian Network Approach

Paper ID: 722: Cloud-Integrated BLE Temperature Control and Monitoring System for Portable Transport of Temperature

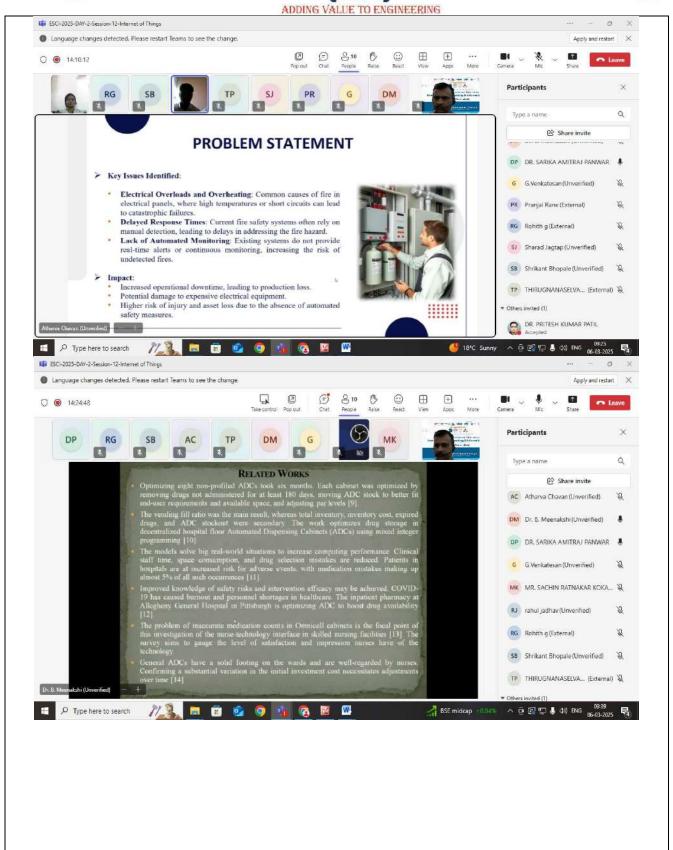
Session Chairs Dr. Shrikant D. Bhopale evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.





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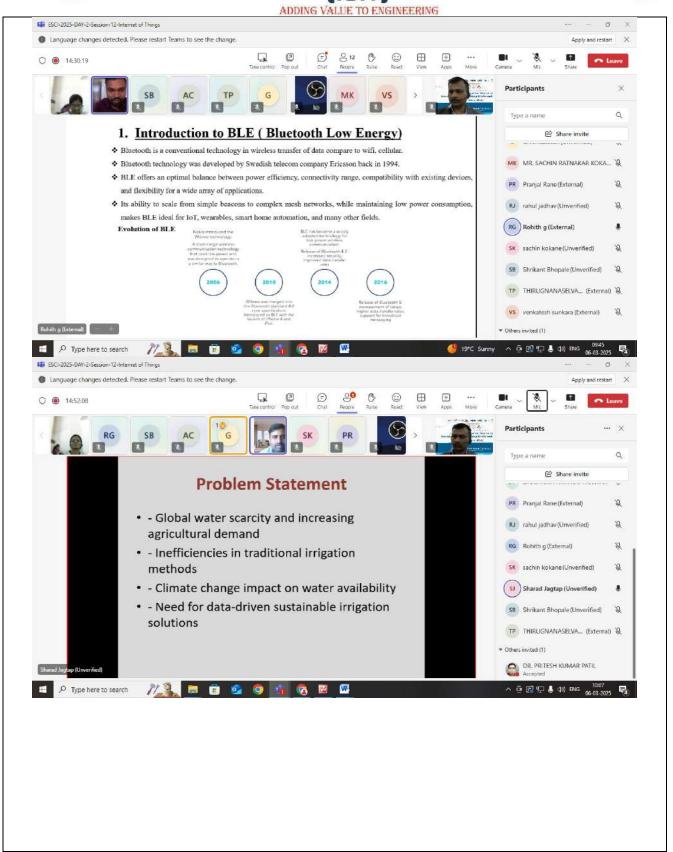




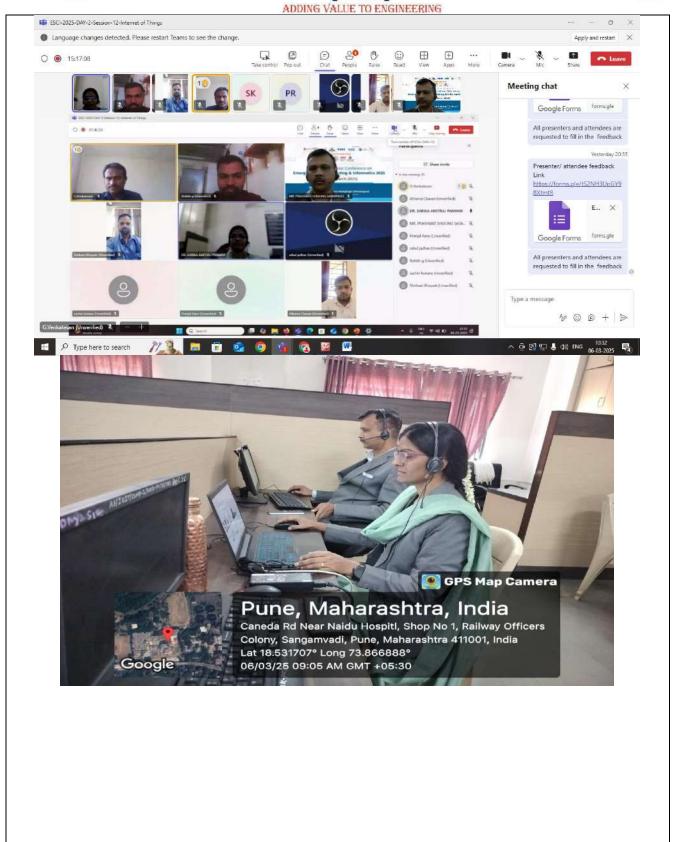


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Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Internet of Things Session-12	626	The Automated Fire Suppression	Atharva
			System for Electrical Enclosures	Chavan
			Using IoT and Embedded	
			Systems	

Track – Internet of Things		Session Chair Dr. Manjusha Tatiya, Indira College of Engineering			
		ment, Pune			
Date: 06/03	3/2025	Time: 9.00 am to 11.00 am			
Link- http	s://tinyurl.c	om/DAY-2-Sess-13-IoT			
1. Dr. Archana					
Said					
	Date: 06/02	& Manage Date: 06/03/2025			

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 13: Internet of Things was successfully conducted on the third day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 6 Papers were presented in this session.

Paper ID 731: Document Query Response Using Microsoft-Phi-3-Mini-4K

Paper ID 760: TEC Variation Prediction through AI and Space Weather Analysis.

Paper ID 773: Enhancing Medical IOT Data Using Blockchain

Paper ID 793: Enhanced framework for predictive analytics of infants in Neonatal integrating AI & IoT

Paper ID 854: Secure and Transparent Smart Agriculture: Integrating Blockchain Technology with IoT.

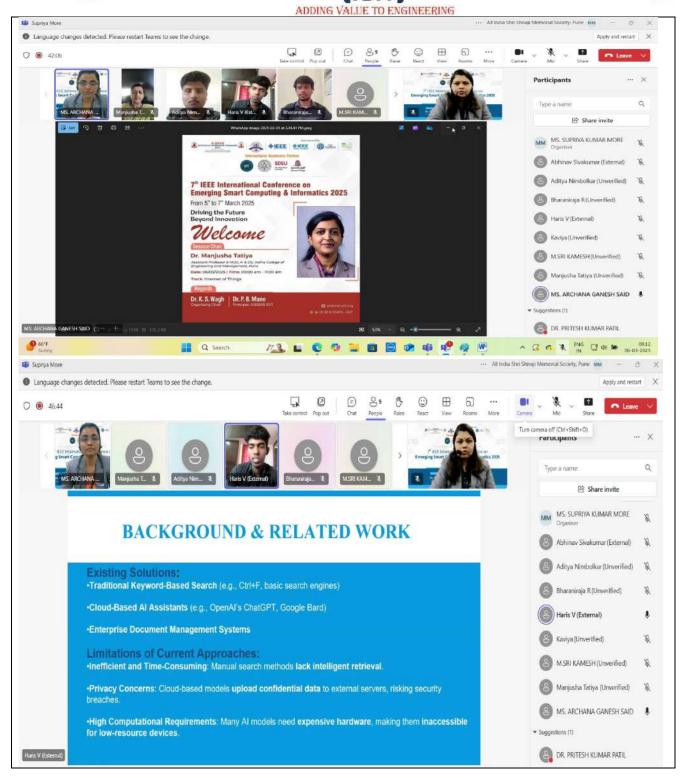
Paper ID 1156: Unravelling Emotional Well-Being: Detecting Stress in Social Media Through Advanced Deep Learning

Session Chairs: Dr. Manjusha Tatiya, evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.



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Sr. No	Name of Session/Trackonomous In: Approved by AICTE, Accredited by NA		Best Paper Titleity gnised by Gott. of Maharashtra NBA - 5 UG Programmes	Name of Presenter
1	Internet of Things	1156	Unravelling Emotional Well- Being: Detecting Stress in Social Media Through Advanced Deep Learning	Kaviya P

Session-14				
Track - Smart Computing	Session Chair -	Session Chair - Hillol Biswas, WAPCOS Limited		
Day: Thursday	Date:	Time: 9.00 am to 11.00 am		
	06/03/2025			
Session Coordinators-	Link- https://tiny	rurl.com/DAY-2-Sess-14-SC		
 Dr. Riyazahmed Abdulgani Jamadar 				
2. Ms. Anuradha Shivajirao Varal				

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 14: Smart Computing was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 6 Papers were presented in this session.

Paper ID: 631: An Associative Memory Approach to Predict Autism Spectrum Disorder

Paper ID: 648: SkinCareNet with DermGraph: Revolutionizing Skin Cancer Detection with Adaptive Graph Intelligence Algorithms

Paper ID: 670: Efficient Host Threat Detecting Using The Procsage Method

Paper ID: 705: CAMICS: A Context-Aware Multi-Intent Conversational System for Enhanced Al-Driven Customer Interaction Models

Paper ID: 1363: BoTNetShield: Intelligent IoT Security Framework using Convolution Neural Network

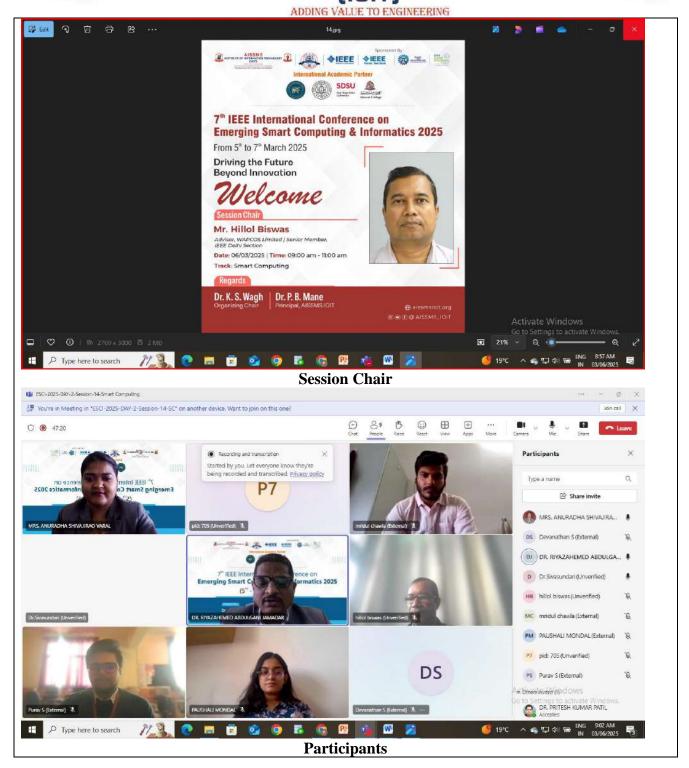
Paper ID: 1361: Leveraging Convolutional Neural Networks for AI Artwork Classification

Session Chairs Hillol Biswas evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.



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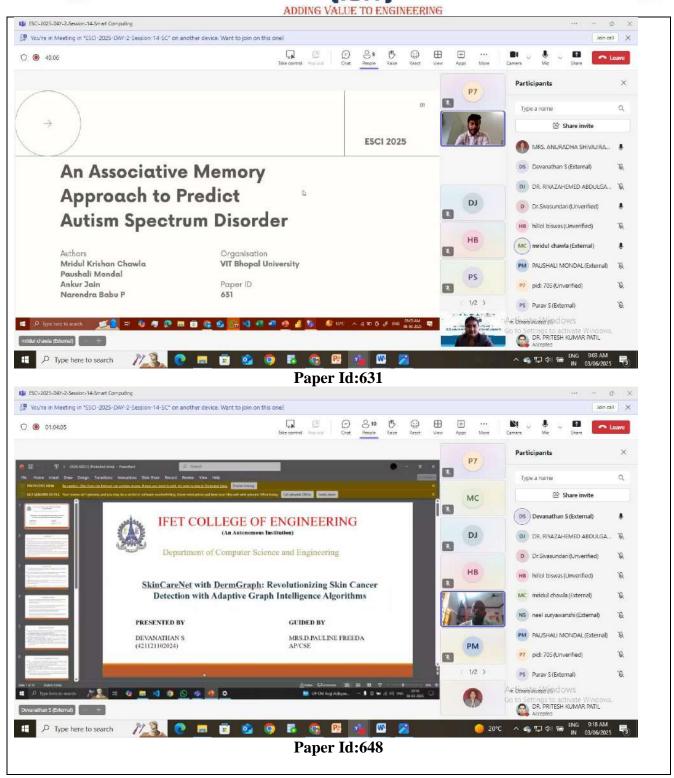






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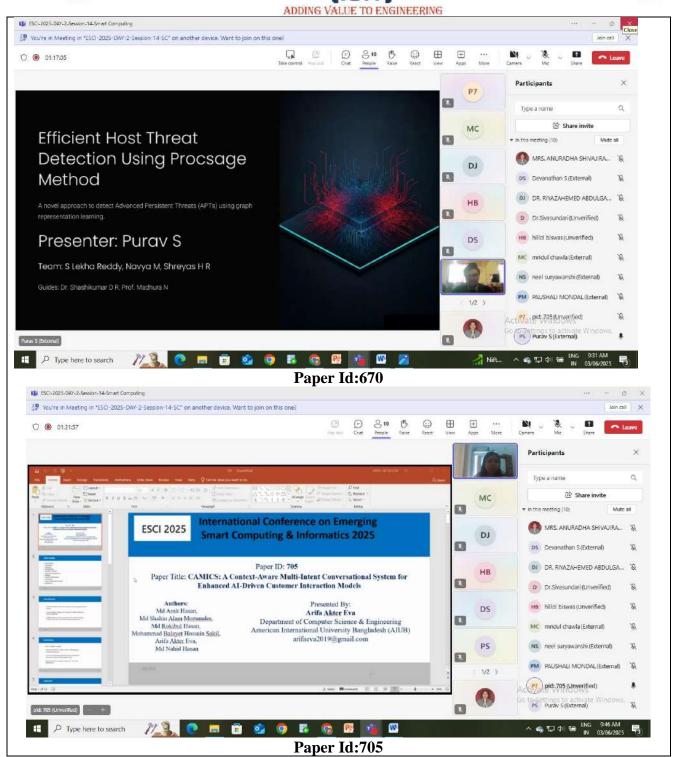






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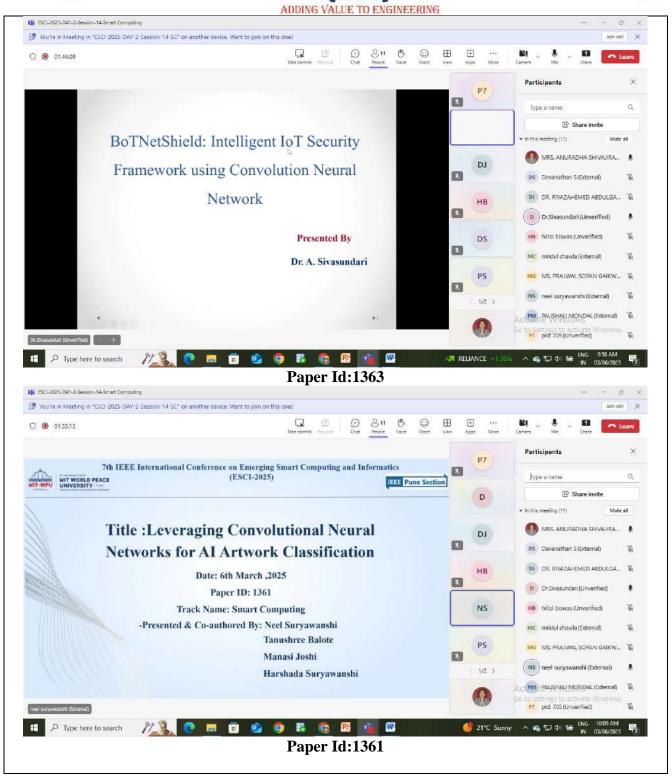






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Session Coordinators

Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	Smart Computing Session-14	1361	Leveraging Convolutional Neural Networks for AI Artwork Classification	Neel Suryawanshi

Session-15						
Track - Smart Compu	uting	Prathishthan	air Dr. Pradip Ghorpade,Vidya 's Kamalnayan Bajaj Institute of ng and Technology, Baramati			
Day: Thursday	Date: 06	5/03/2025	Time: 9.00 am to 11.00 am			

Session Coordinators-An Autonomous Institute Affiliated to Savitriba Pune University -2-Sess-15-SC
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Dr. Manisha
 Rakesh
 Raghuvanshi

2. Dr. Vijaykumar S. Kamble

Abstract of Session/keynote/Special session/tutorial –

Technical Oral Presentation Session 15: Smart Computing was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2024.

Total 5 Papers were presented in this session.

Paper ID: 732: A Hybrid Explainable AI Framework for Enhancing Trust and Transparency in Autonomous Vehicles

Paper ID:737: CryptoQNet: Leveraging Quantum Computing for Enhanced Cryptocurrency Market Analysis

Paper ID:764: Improving Artificial English Academic Paper Summarization employing Cutting-Edge Transformer Models

Paper ID: 820 : Optimizing Financial Security with Cloud AI: Implementing Deep Q-Network and Transfer Learning for R

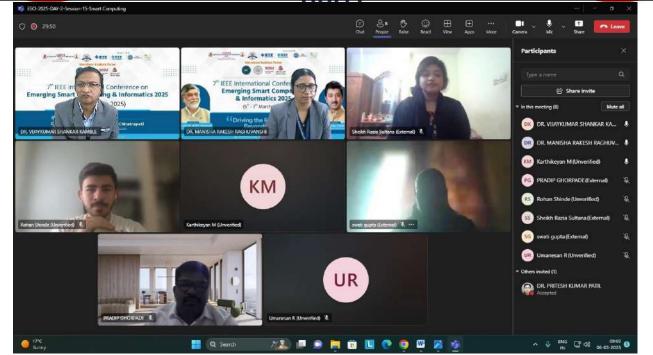
Paper ID: 826: Behavior Prediction and Anomaly Detection: Leveraging ML for Online Child Safety

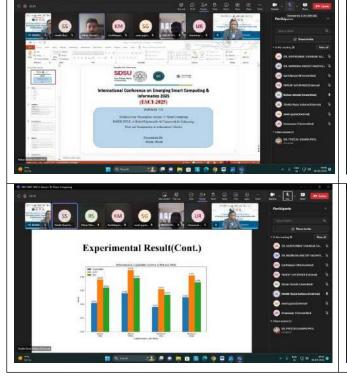
Session Chairs Dr. Pradip Ghorpade evaluated the papers based on the parameters:

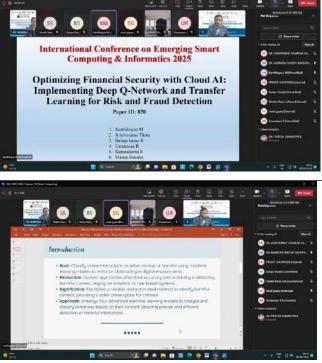
Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.

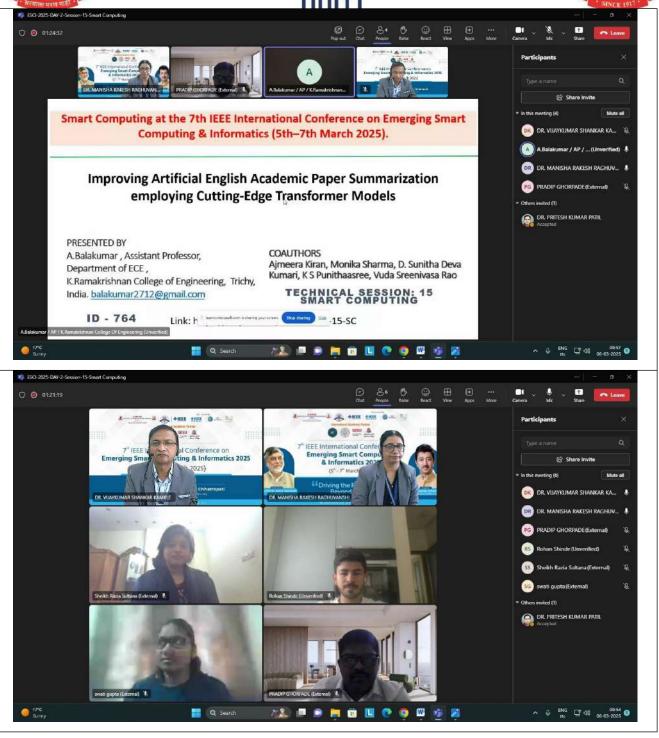
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(INIT)



Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Smart Computing Session-15	732	A Hybrid Explainable AI Framework for Enhancing Trust and Transparency in Autonomous Vehicles	Rohan Shinde

Session-16				
Track - Smart Computing Session Chair - Dr. Nitin Wankhede, PCET				
	NMIET			
Day: Thursday	Date:	Time: 9.00 am to 11.00 am		
	06/03/2025			
Session Coordinators-	Link- https://tinyu	ırl.com/DAY-2-Sess-16-SC		
1. Ms. Jayashree Chandrakant Pasalkar				
2. Mrs.Farhana Kazi Sayed				

Abstract of Session/keynote/Special session/tutorial –

Technical Oral Presentation Session 16: Smart Computing was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 5 Papers were presented in this session.

Paper ID: 902: Enhancing Lung Diseases Prediction Using CNN ResNet-101 Model

Paper ID: 916: A Hybrid Approach for Understanding Animal Behavior Using Deep Learning Techniques

Paper ID: 917: Industrial Internet of Things Energy Efficiency: Investigating Low-Power Communication Protocols and.

Paper ID: 927: Improving Intrusion Detection Systems using Reinforcement Learning: Responding to New Cyber Attacks

Paper ID: 1390: Comprehensive Analysis of Machine Learning Models and Hybrid Approaches for Fake News Detection

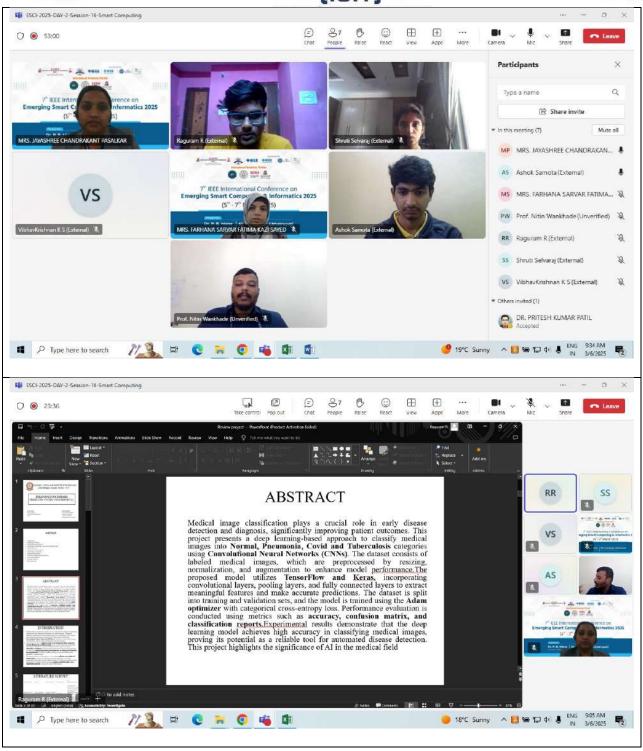
Session Chairs Dr. Nitin Wankhede, PCET-NMIET evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

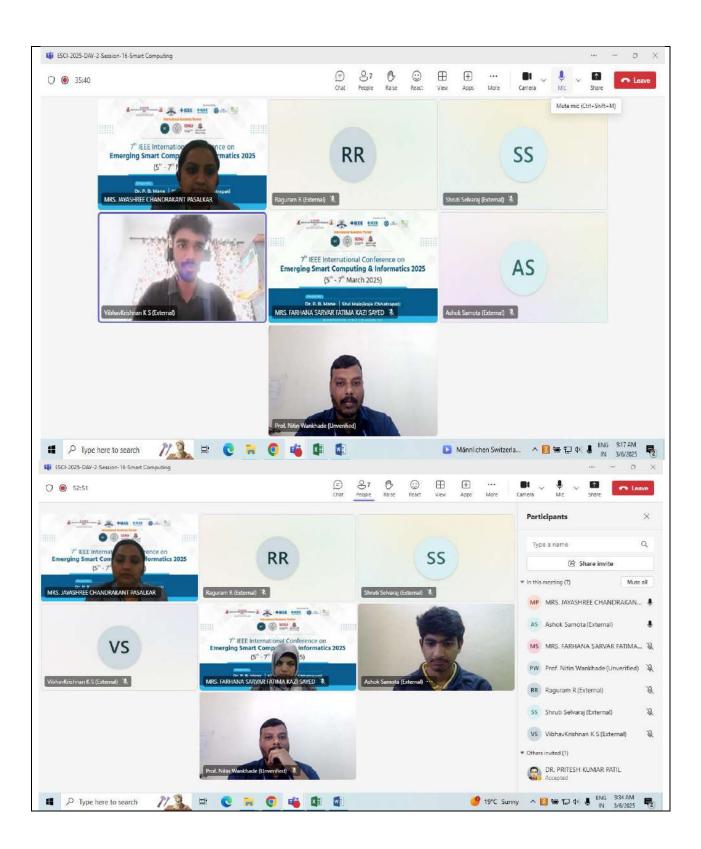
At the end of session, Session Chair conveyed the Best Paper Title.



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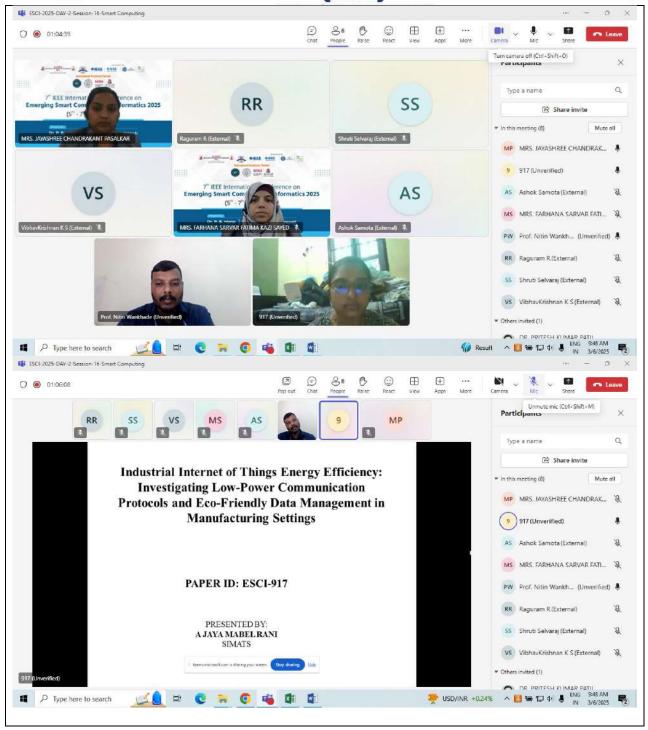






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Sr.	Name of Session/Track	Paper	Best Paper Title	Name of
No		ID		Presenter
1	Smart Computing Session-16	916	A Hybrid Approach for	Vibhavkrishnan
			Understanding Animal Behaviour	Kumarashanmug
			Using Deep Learning Techniques	am

Session-17							
Track - Smart Computing	Session Chair: Dr. Shailesh Pramod Bendale						
Day: Thursday	Date: 06/03/2025	Time: 2.00 pm to 4.00 pm					
Session Coordinators- 1. Dr. Pritam Santosh Saha 2. Mrs. Snehal Akshay	Link: OFFLI	NE					

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Abstract of Session/keynote/Specialbsession/tuteriald-Recognised by Govt. of Maharashtra

Technical Oral Presentation Session 17. Smart Computing was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 9 Papers were presented in this session.

Paper ID: 1288:Identification of Hub Genes and Enriched Pathways in Lung Cancer using Single-

Cell RNA Sequencing

Paper ID:900: Federated Learning for Cardiovascular Disease Prediction

Paper ID:830 A Multimodal Anonymization Framework for MP4 Videos

Paper ID: 839: Comprehensive Comparative Analysis of Food Classification Using YOLOv8n,

VGG19, and InceptionV3

Paper ID:436: American Sign Language Recognition System

Paper ID:339: Examsentry: Secure, Verify, Excel

Paper ID:171: Text2Image: Generating Visuals from Words using Deep Learning

Paper ID:253: Video Segmentation and Retrieval Based on Image-Driven Person Recognition for

Surveillance

Paper ID:149: Efficient Fingerprint Database Organization for Optimized Recognition

Session Chair Dr. Shailesh Pramod Bendale evaluated the papers based on the parameters:

Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.





Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Smart Computing Session-17	830	A Multimodal Anonymization	Arya Pathak
			Framework for MP4 Videos	

Session-18						
Track – Internet of Things	Session Chair Kavita Kumavat, Vishwakarma					
_		University, Pune	e			
Day: Thursday Date: 07/03/		2025	Time: 2.00	pm to 4.00 pm		
Session Coordinators-	Offline sessi	on				
1. Dr. Reshma Yogesh Totare Venue :-Lab		502				
2. Ms. Supriya Vikas Lohar						

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 18: Internet of Things was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 5 Papers were presented in this session.

1169:Milk Adulteration Detection Through Statistical Analysis, Spectroscopy, & AI Integration Footsteps

871 : Intrusion Detection using Federated Learning with Application of Federated Dropout 1057:Web-Kavach: Shielding Your Digital Life

746:EduMate: AI-Based Student Support Platform with OCR and Voice Assistance
An Autonomous Institute Affiliated to Saviribal Phule Pune University
1221:An Automated IoT-EnablodoReal Alamen Intravienous duffusions cum Remote Patient Monitoring
System

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Session Chairs Dr. Kavita Kumavat, Vishwakarma University, Pune evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.

Total no. of Participants- 05



Kavita Kumavat, Vishwakarma University, Pune Session chair felicitation by Principal sir







Paper presentation



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Participant's certificate Distribution

Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of	ĺ
~ •	1 tallie of Session, 11 ach	I upor II	2050 1 upor 11010	1 1001110 01	1

No				Presenter
1	Internet of Things-18	1221	An Automated IoT-Enabled	Pulkit Gupta
			Real-Time Intravenous Infusion	Aditi Rao
			cum Remote Patient Monitoring	
			System	

Session-19					
Track - Image & Signal Processi	ing (Offline)	Session Chair: Dr. Yogini Borole, Marathwada			
		Mitrmandal's Institute of Technology, Lohagaon,			
		Pune	-		
		M: 9689925823 E: yoginiborole@gmail.com			
Day: Thrusday	Date: 06/03/202	25	Time: 2.00 pm to 4.00 pm		
Session Coordinators-	Link- Offline S	Session (Room N	No. 704)		
1. Dr. Nidhi Sharma					
2. Ms. Anuja Phapale					

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 19: Image & Signal Processing (Offline) was successfully conducted offline in Room No. 704 on second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 7 Papers were presented in this session.

Paper ID: 443: Alzheimer's Disease Diagnosis From Brain MRI Using Deep Learning Techniques Paper ID: 318: Comparative Analysis of Machine Learning Algorithms for EMG Signal Classification in AI-Based Prosth

Paper ID: 872 : Advancing Drone-Based Traffic Surveillance: A Review and Novel Framework for Attention-Guided Motion

Paper ID: 183: Enhancing Visibility in Foggy Landmark Images: Advanced Restoration A Methods

Paper ID: 1186: Multi-Model Deep Learning Framework for Autonomous Perception and Scene Understanding

Paper ID: 138: Brain Tumor Classification in MRI Scans Using Shape Features & Machine Learning Techniques

Paper ID: 274: Comparative Analysis of Advanced GAN Architectures for Robust Image Dehazing Session Chair Dr. Yogini Borole evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.









Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Image & Signal Processing	183	Enhancing Visibility in Foggy	Shruti
	(Offline) Session-19		Landmark Images: Advanced	Korpade
			Restoration A Methods	

Session-20	
Track - 20: Internet of Things	Session Chair Dr.T.Hasarmani,TSSM Bhivarabai Sawant College of Engineering and Research,Pune
Day: Thursday 6/3/25	Time: 2.00 pm to 4.00 pm

Day: Thursday 6/3/25	Time: 2.00 pm to 4.00 pm
Session Coordinators-	Link- Link: https://tinyurl.com/DAY-2-Sess-20-IoT
1. Dr. Amita Anirudha Shinde (9552003437)	Web Linck: https://tinyurl.com/DAY-2-Sess-20-IoT
2. Ms. Varsha Kiran Patil (9325643275)	

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 20: conducted on the **SECOND** day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 7 Papers were presented in this session.

1059 : Optimizing Industrial Iot Predictive Maintenance Using Quantum Algorithms On Google Quantum AI

1064: Security Enhancement In MANET Using Modified Crow Search Optimization Algorithm For Iot Application

1065 :Enhancement Of Security In MANET Using Modified Crow Harris Hawks Optimization Algorithm For Iot App Hybrid Electric Vehicle Sivasankaran M

1080: A Comprehensive Approach To Power Management In Hybrid Electric Vehicle



1106: Enhancing Respiratory Health with Smart Cooling Masks and Immune System Monitoring
An Autonomous Institute Affiliated to Saytirbal Phule Pune University

1142: Analyzing Advanced Persistenty Threats (ABTs) Resistency Passive Honeypot Sensors and SelfOrganizing Maps

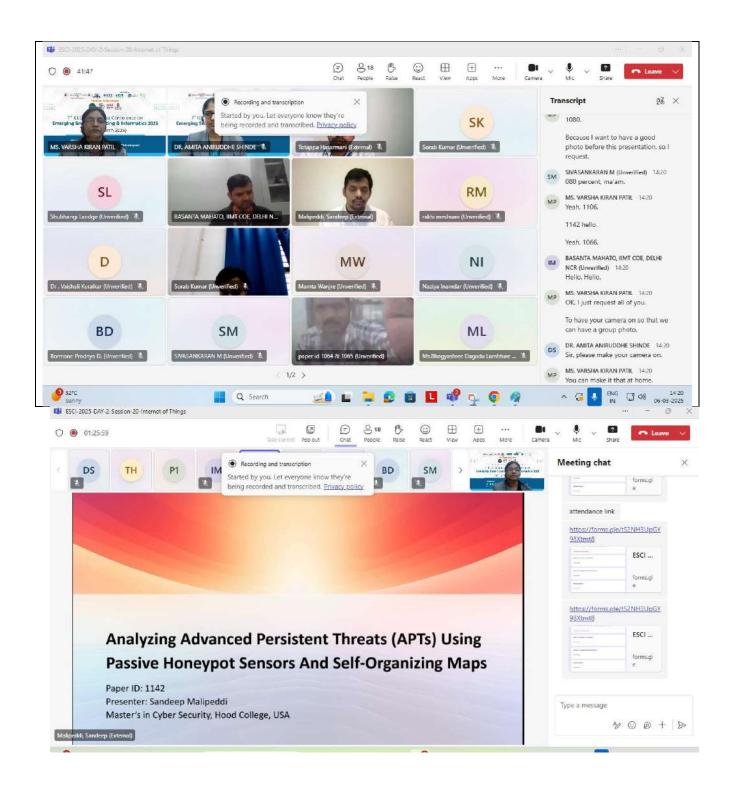
Accredited by NAAC with "A+" Grade | NBA - 5 UG Programmes **Organizing Maps**

1066: Comprehensive Mix-Method Approach for Efficient Waste Management using IoT-Driven **Solutions**

The Session Chairs, Dr. Totappa Hasarmani, evaluated the papers based on the parameters of presentation Quality, Research Content, Depth of Understanding of the subject, Effectiveness, and Time Management.

At the end of the session, the Session Chair conveyed the Best Paper Title.

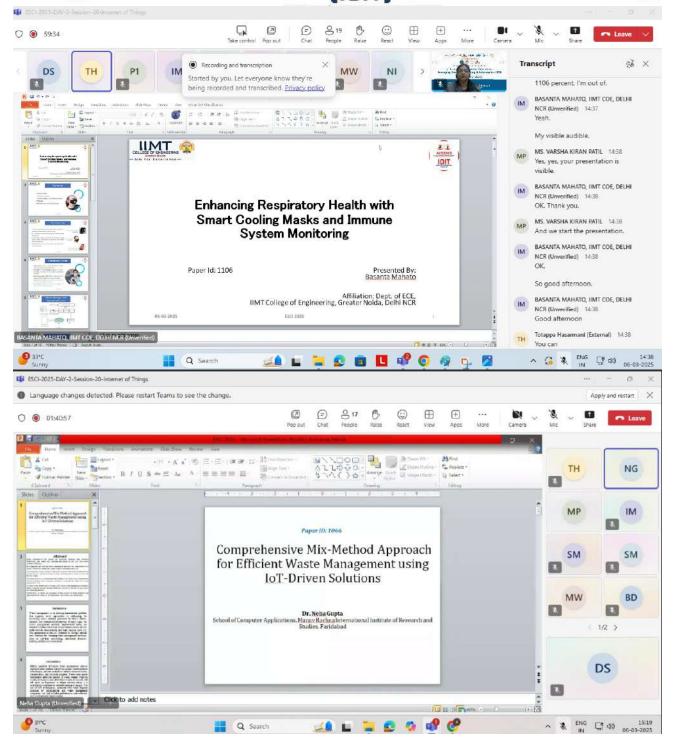






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Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
`1	Internet of Things	1066	Comprehensive Mix-Method	Neha Gupta.
	Session 20		Approach for Efficient	Manav
			Waste Management Using IoT-	(Rachna

	Driven Solutions	International
		Institute of
		Research &
		Studies
		Faridabad,
		Haryana)

	Session- 21				
Track - Smart Compu	ting	Session Chair: Dr. Sanket Raval, GMB Polyted Rajula			
Day: Thursday	Date: 06	/03/2025	Time: 2.00 pm to 4.00 pm		
Session Coordinators- 1. Ms. Minal A. Zope 2. Mr.Amol More	Link- https://tiny		om/DAY-2-Sess-21-SC		

Abstract of Session/keynote/Special session/thatoriasavitribai Phule Pune University

Technical Oral Presentation Session 25. Smart computing was successfully conducted on the third day of 6th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2024): 6th March 2025.

Total 6 Papers were presented in this session.

Paper ID: 1028: Effect of Monetary Policy on Economic Growth: An Ordinary Least Square Approach

Paper ID: 1073: Advanced Intelligent Pedestrian Crossing System

Paper ID: 1151: Advancing Carbon Emission Prediction through Machine Learning: The Impact of Fossil, Nuclear, and Re

Paper ID: 1227: An Efficient Hybrid Privacy Preservation Model for Big Data Analytics

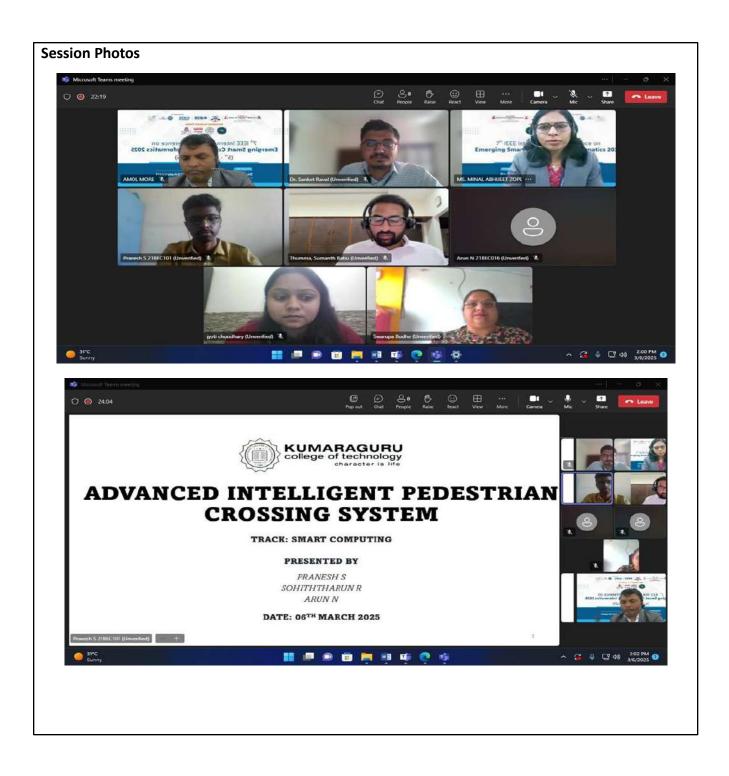
Paper ID: 1300: Dynamic Load Balancing in Cloud Computing Using a Hybrid Bidirectional LSTM - RNN with Deep Learning

Paper ID: 1403: Integrating Machine Learning for PCOS Detection and femBot: A Novel Menstrual Health Chatbot

Paper ID: 1429: Innovations in Multi-Touch Attribution Models: Beyond Traditional Marketing
Analytics in the Pharmac

Session Chairs **Dr. Sanket Raval** evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.

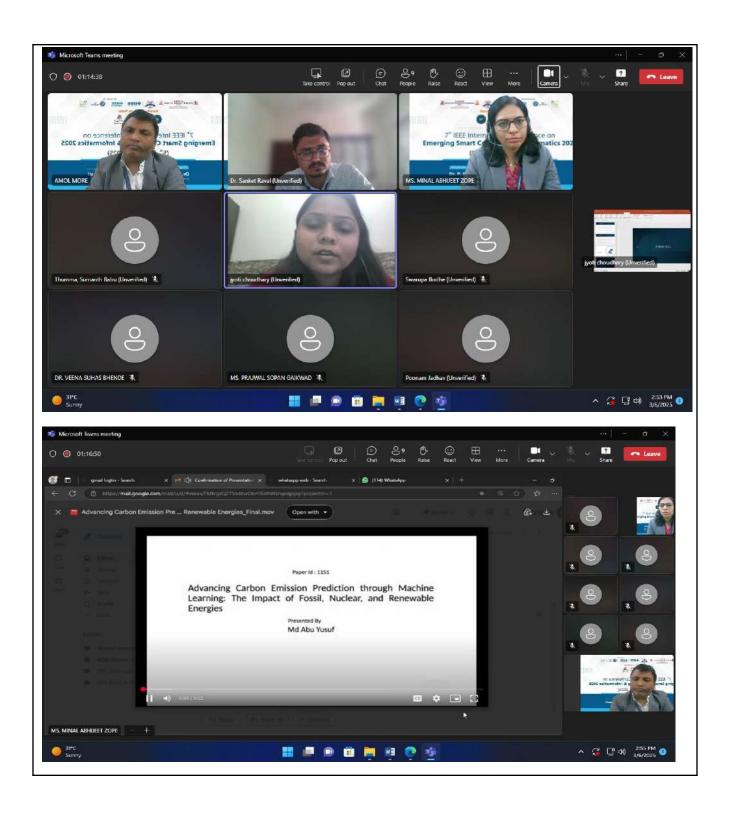




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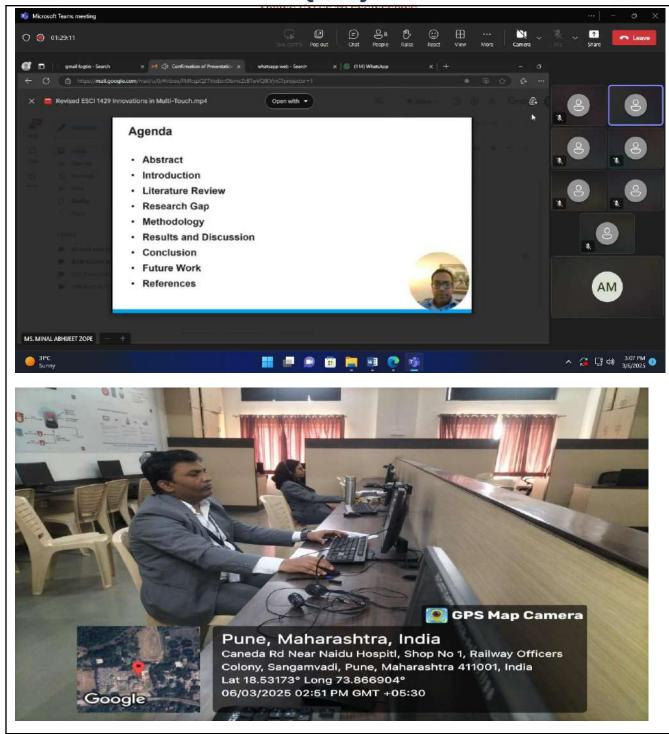


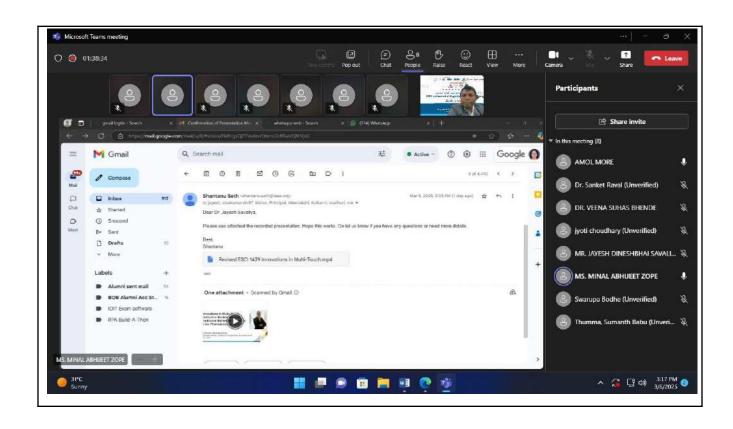




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Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	Smart Computing Session-21	1073	Advanced Intelligent Pedestrian Crossing System	Pranesh S.

Session- 22				
Track - Smart Computing	Session Chairs			
	 Dr. Vijay M. Mane, VIT, Pune. Prof. Bhagyashree Shendkar, MIT Art Design and Technology University, Pune 			

Day: Thursday	An Autonomous Institute Affiliate op Seylythei Phule Pune Univertime: 2.00 pm to 4.00 pm Approved by AICTE, New Deini and Recognised by Govt. of Maharasilira
Session Coordinators-	Link- https://tinyurl.com/DAY-2-Sess-22-SC
1. Dr. Mohini P. Sardey	y

2. Ms. Rupali S. Pawar

Abstract of Session/keynote/Special session/tutorial –

Technical Oral Presentation Session 22: Smart Computing was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 6th March 2025.

Total 6 Papers were presented in this session.

Paper ID: 195 - Empowering Deaf Communication: Deep Learning Framework for Sign to Speech Translation

Paper ID: 214 - Decoding Digital Intruders: Machine Learning Strategies for Botnet Identification Paper ID: 798 - Novel Distributed Approach for Next Best Offer using XGboost

Paper ID: 255 - Dynamic StarCraft: Multi-Agent Generative AI for Immersive Experiences Paper ID: 265 - Al powered plant disease detection and diagnosis

Paper ID: 322 - Hierarchical Community Detection and Network Analysis: A 2-Level Approach for Social Media Networks

Session Chairs Dr. Vijay M. Mane and Prof. Bhagyashree Shendkar evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.



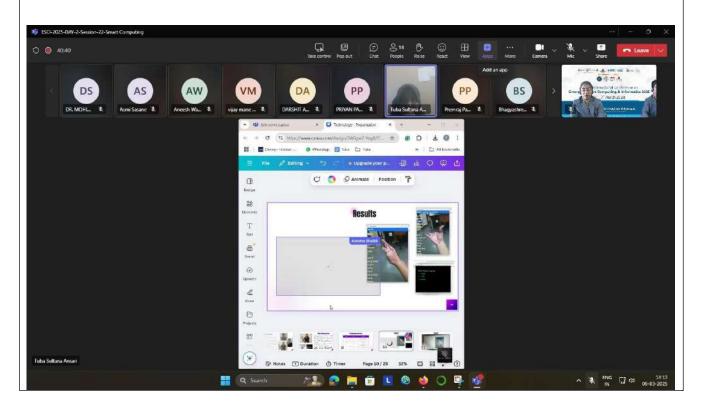


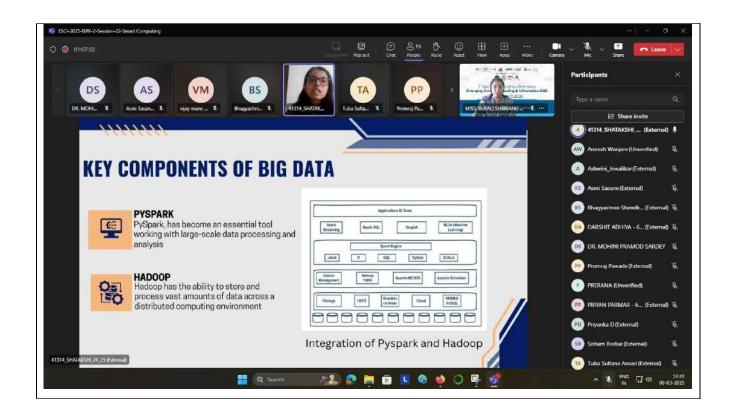


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Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Smart Computing Session-22	255	Dynamic StarCraft: Multi-Agent Generative AI for Immersive Experiences	Soham Borkar

Session-Technical Oral Presentation 23				
Track - Special session		Session Chair: Dr. S.V Limkar, Assistant		
		Professor, Co	entral University of Jammu , J&K	
Day: Friday	Date: 07/03/2025	5	Time: 11.00 am to 1.00 pm	
Session Coordinators-	Link- https://tinyurl.com/DAY-3-Sess-23-SS			



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1. Dr. Y.P Patil

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2. Dr. V.P Kuralkar

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 23: Special Session was successfully conducted on the third day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 7th March 2025.

Total 6 Papers were presented in this session.

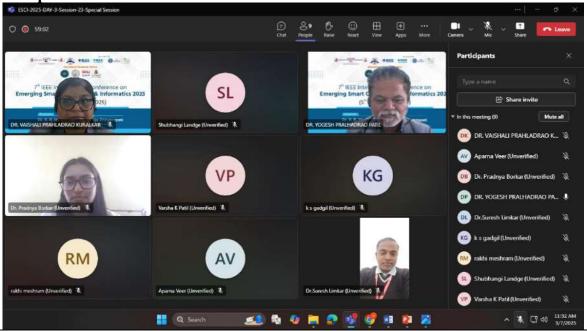
- 1. SVL10: Development of Neural Interface-Based Brain-Controlled Robotic Prosthetics for Enhanced Mobility in
- 2.SVL2: Building AI-Driven Frameworks for Real-Time Threat Detection and Mitigation in IoT Networks
- 3. SVL3: Developing Energy-Efficient IoT Architecture with Edge and Fog Computing for Smart Cities
- 4. SVL4: Enhancing Data Security in Transmission Through Quantum Key Distribution in Cryptography
- 5. SVL6: Advancing Personalized Medicine Using Genomic Data Analysis and Predictive Modeling 6. SVL7: Innovations in Robotics and Automation to Improve Efficiency and Precision in Healthcare Delivery and Rehabilitation System.

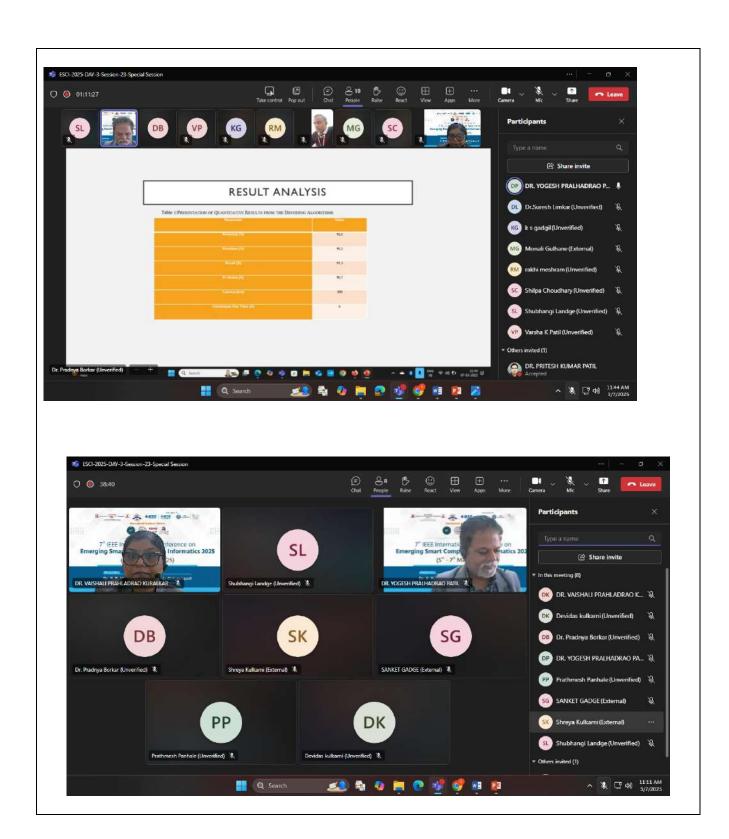
Session Chair Dr. S.V Limkar evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper of the Session Titled: Innovations in Robotics and Automation to Improve Efficiency and Precision in Healthcare Delivery and Rehabilitation System.

Total no. of Participants- 12

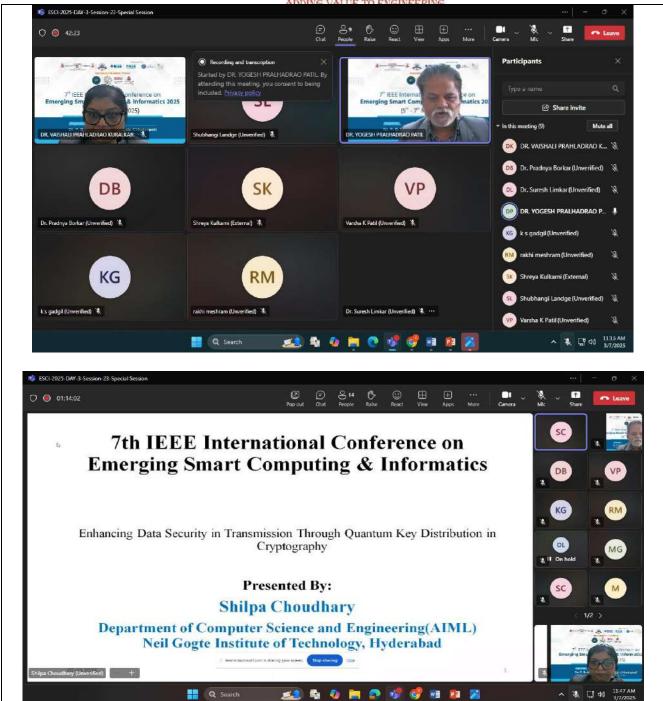
Glimpses of the session:











Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	23 : Special Session	SVL7	Innovations in Robotics and Automation to Improve Efficiency and Precision in Healthcare Delivery and	Nitin Rakesh

	Rehabilitation System.	

Session-24: Special session					
Track - Special session		Session Chair Dr. Ashu Taneja, Institute of Engineering and Technology, Chitkara University, Punjab			
Day: Friday	Date: 07/03/202	5	Time: 11.00 pm to 1.00 pm		
Session Coordinators-	Link-: https://ti	nyurl.com/DAY-	3-Sess-24-SS		
 Dr. Shivaji Sitaram 					
Gadadhe					
2. Ms. Bhagyashree D.					
Lambture					

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 24: **Special session** was successfully conducted on the third day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 7th March 2025.

Total 4 Papers were presented in this session.

Paper ID: SVL8: Internet of Things Applications for Real-Time Remote Patient Monitoring and Health Management

Paper ID: SVL13: Automated Detection of Poultry Diseases Using Deep Learning and Computer Vision

Paper ID: SVL9: Using Quantum Annealing to Solve Large-Scale Optimization Problems in Logistics and Scheduling

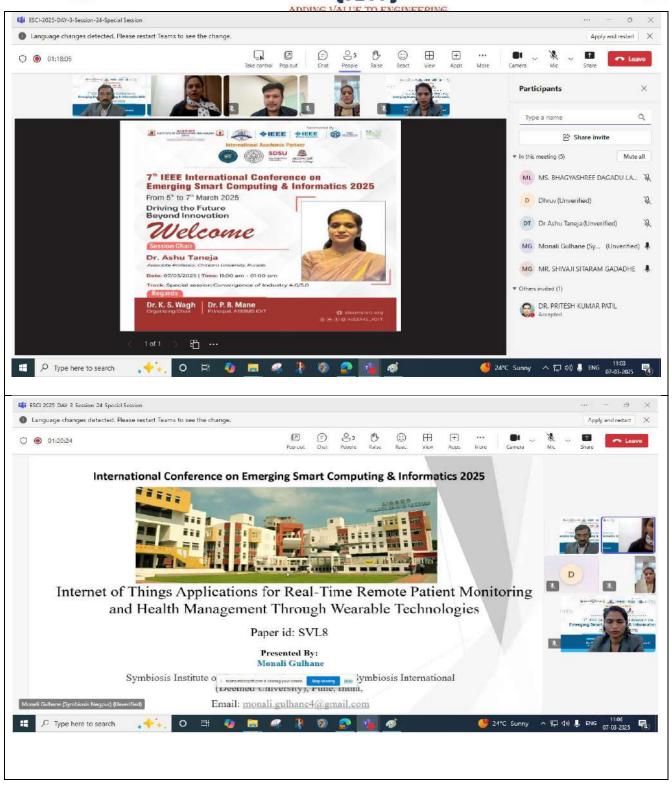
Paper ID: SVL1: Integrating Reinforcement Learning with Explainable AI for Real-Time Decision Making in Dynamic

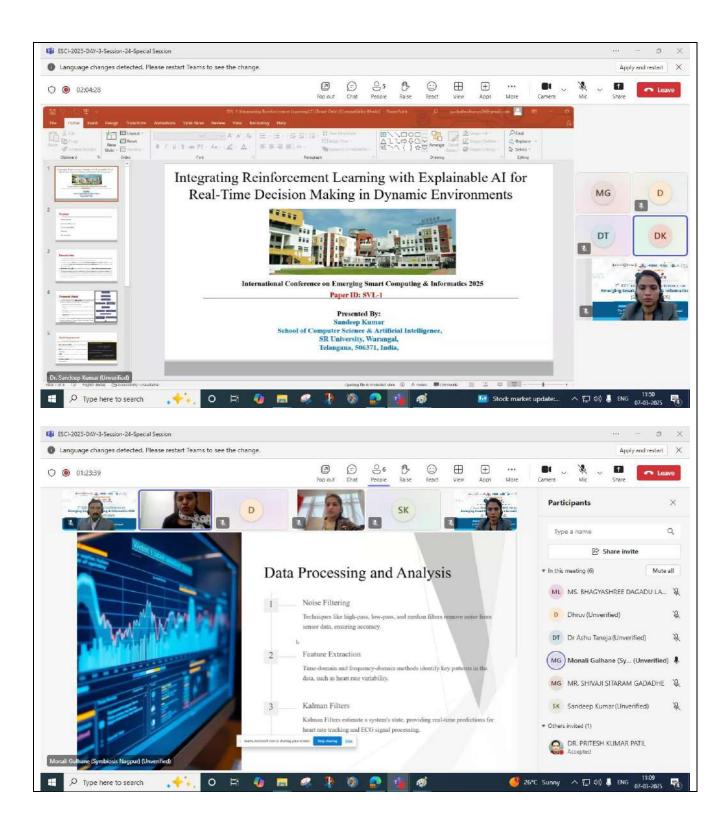
Session Chairs Dr. Ashu Taneja evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.



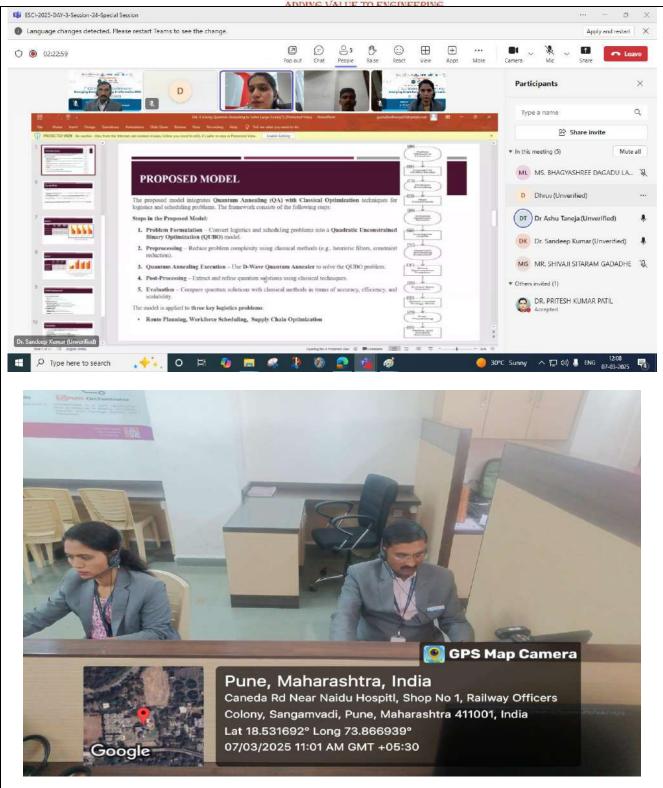
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Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	Session-24 : Special session	SVL13	Automated Detection of Poultry	Mr. Dhruv
			Diseases Using Deep Learning	Kumar Soni
			and Computer Vision	

Session-25

1 0	Session Chair: Dr. Vikash Yadav, Government Polytechnic Bighapur Unnao, Uttar Pradesh.

Day: Friday	Date: 07/03/2025	Time: 11.00 pm to 1.00 pm
Session Coordinators-	Link- : https://tinyurl.com/DAY-3-	Sess-25-SS
1. Dr. Pramod Ganesh Musrif(Joshi) (9552546729)		
2. Ms. Pragati Prashant Mahale (9405371647)		

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 25: Smart Computing was successfully conducted on the third day of 6th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2024): 7th March 2024.

Total 4 Papers were presented in this session.

Paper ID: VY_05

Title: YOLOv7 for Dental Caries Detection: Challenges in Small Object Identification

Paper ID: VY_04

Title: Transforming Agriculture: Deep Learning for Leaf Disease Detection

Paper ID: VY 10

Title: Analyzing Machine Learning Frameworks for Anomaly Detection on Web Server Log Data

Paper ID: VY 12

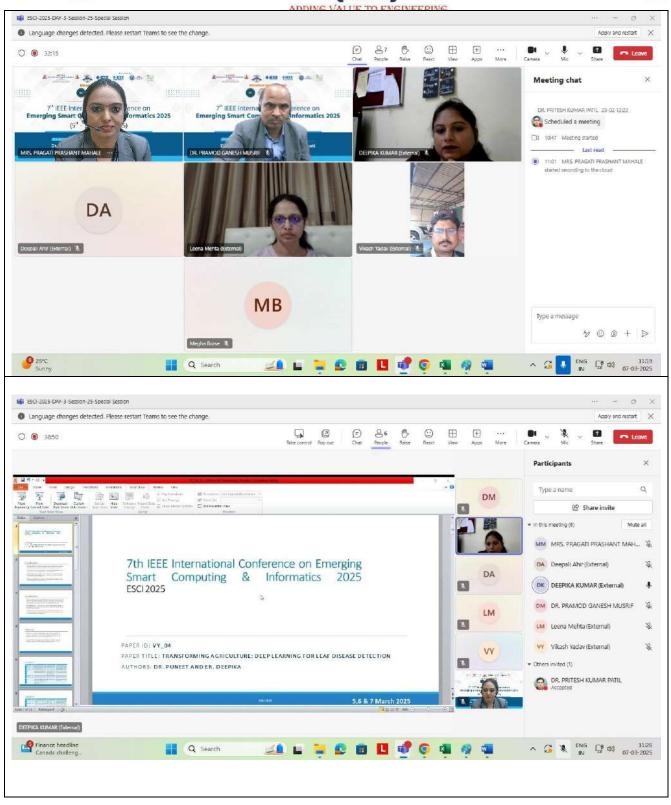
Title: A Deep Learning Approach for Multi-Disease Diagnosis with ResNet50 and Spatial Attention Session Chairs Dr. Vikash Yadav, Government Polytechnic Bighapur Unnao, Uttar Pradesh evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

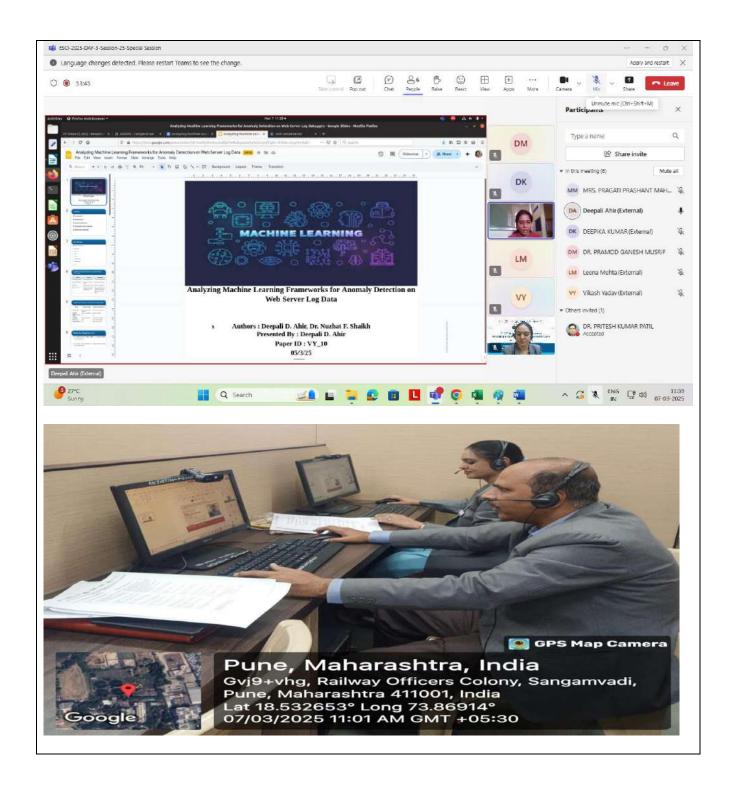
At the end of session, Session Chair conveyed the Best Paper Title.



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Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	Smart Computing Session-25	VY_12	A Deep Learning Approach for	Deepika

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 Accidented by MANO With At Grade MDA 3 00 Flogrammide				

Session 26: Special Session				
Track - Smart Computing		Session Chair Dr. P.A. Harsha Vardhini, Vignan Institute of Technology and Science, Hyderabad, Telangana, India. (9000376651) pa.harshavardhini@ieee.org		
Day: Friday	Date: 07/03/202	25	Time: 11.00 am to 1.00 pm	
Session Coordinators-	Linkhttps://tiny	url.com/DAY-3-S	Sess-26-SS	
1. : Dr. Pritesh Kumar				
Patil (9209217431)				
2. 2. Dr. Nitin Prakashrao				
Bhone (9021185621)				
Abstract of Session/Iroynote/Special session/tutorial				

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 26: Smart Computing was successfully conducted on the third day of 6th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2024): 7th March 2024.

Total 5 Papers were presented in this session.

Paper ID: PA_17: Design and Performance Evaluation of MIMO Systems for Next Generation Wireless Networks

Paper ID: PA_60Â: Spam Detection Using Machine Learning Algorithms.

Paper ID: PA_46: Image Compression and Enhancement Using Deep Learning Algorithm.

Paper ID: SS_6: AI and Machine Learning Applications in Hepatitis B Diagnosis: An Exploration of Techniques and Out.

Paper ID: SL1: PHISHING DETECTION AND RESPONSE SYSTEM WITH XGBOOST MACHINE LEARNING.

Session Chairs Dr. P.A. Harsha Vardhini evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.



Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Special Session :- 26	PA_46	Image compression and	H Shree
			Enhancement Using Deep	Kumar
			Learning Algoritham	

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Session-27				
Track - Smart Computing	Sess	Session Chair Dr. Sharmila Kishore Wagh , M.E.S. College of		
		Engineering, Pune		
Day: Thursday	Date: 07/03/20 25	Time: 11.00 pm to 1.00 pm		
Session Coordinators- 1. Dr. D. S. Shelar 2. Mr. Girish Navale	Link- : http	Link-: https://tinyurl.com/DAY-3-Sess-27-SC		

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 27: Smart Computing was successfully conducted on the third day of 6th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 7th March 2025.

Total 6 Papers were presented in this session.

Paper ID: 345: Multimodal CNN-Based Framework For Enhanced Detection And Classification Of Skin Cancer And Cysts Paper ID:356: Road Pothole Detection And Reporting System

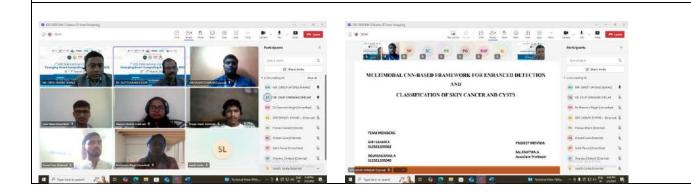
Paper ID:369: Automated Bridge Inspection And Structural Damage Detection Using Yolov5-S

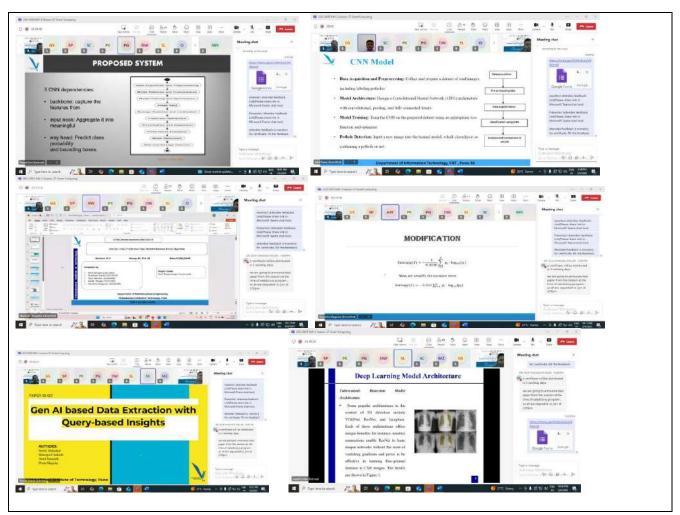
Paper ID: 389: Unveiling Customer Behavior: A Comprehensive Study On Predictive Models For Telecom Churn

Paper ID:427: ONU: Genai Based Data Extraction With Query-Based Insights

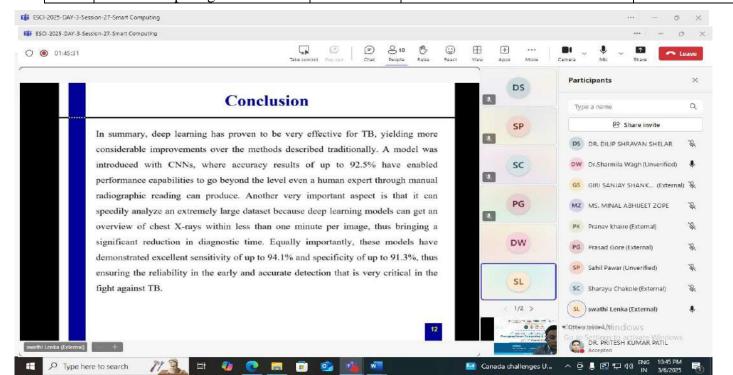
Paper ID:430: Towards Precision Medicine: Deep Learning-Based Pulmonary Tuberculosis Detection in Radiographic Ima

Session Chairs Dr. Sharmila Kishore Wagh evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.





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Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Smart Computing Session-27			



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Session- 28				
Track - Internet of Things Session Chair : Dr. Santosh Rajgade,				
Government College of Engineering Chandrap		of Engineering Chandrapur		
Day: Friday	Date: 07/03/2025	Time: 11.00 am - 1.00 pm.		
Session Coordinators-	Link- : https://tinyurl.c	com/DAY-3-Sess-28-IoT		
1. Dr.Rakesh Bapu Dhumale				
2. Shraddha B. Toney				

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 28: Internet of Things was successfully conducted on the first day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 7th March 2025.

Total 7 Papers were presented in this session.

Paper ID: 1183: Smart Prepaid Electric Meter System

Paper ID: 1220: Acoustic Emission Signal Localization in Steel Plate Specimen Using Neural Networks with Multi-Sensor Feature Concatenation.

Paper ID: 1229: Defense Mechanism to Thwart Model Poisoning on Non-IID Data based Federated Learning for Credit Frau

Paper ID: 1230: Bluetooth Vulnerabilities and Security

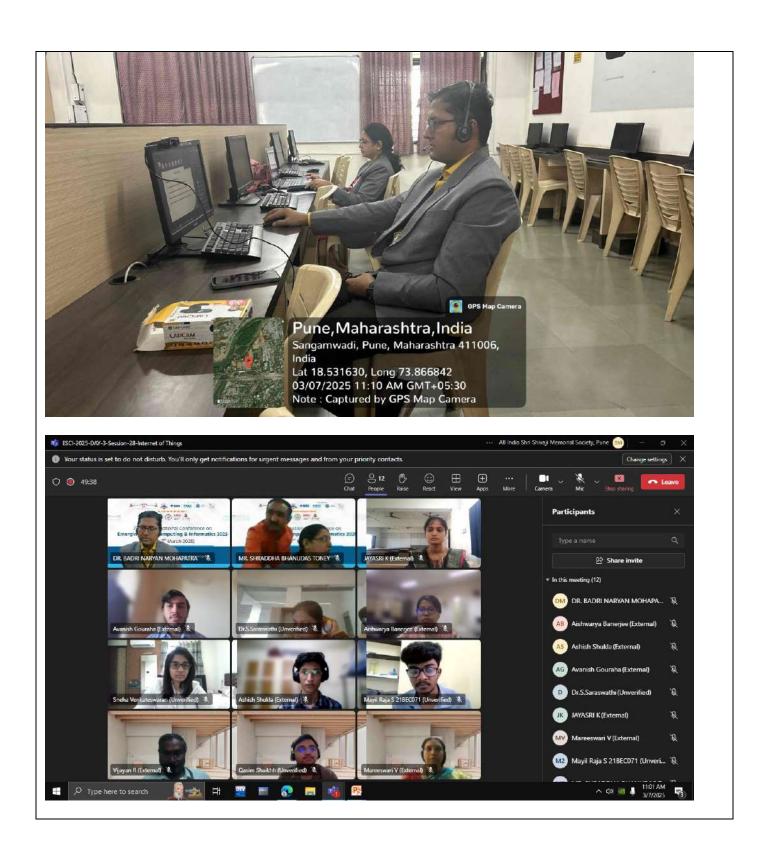
Paper ID: 1249: Optimizing Existing SHM Systems: Retasking as a Self-Healing Solution for Improved Fault Tolerance

Paper ID: 1157: Privacy Preserving Healthcare based on Secure Mathematical Foundations of Fully Homomorphic Encryption

Paper ID: 1158: Optimizing Latency and Energy Efficiency in Edge Computing with Reinforcement Learning and TinyML

Session Chairs Dr.: Dr. Santosh Rajgade, evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

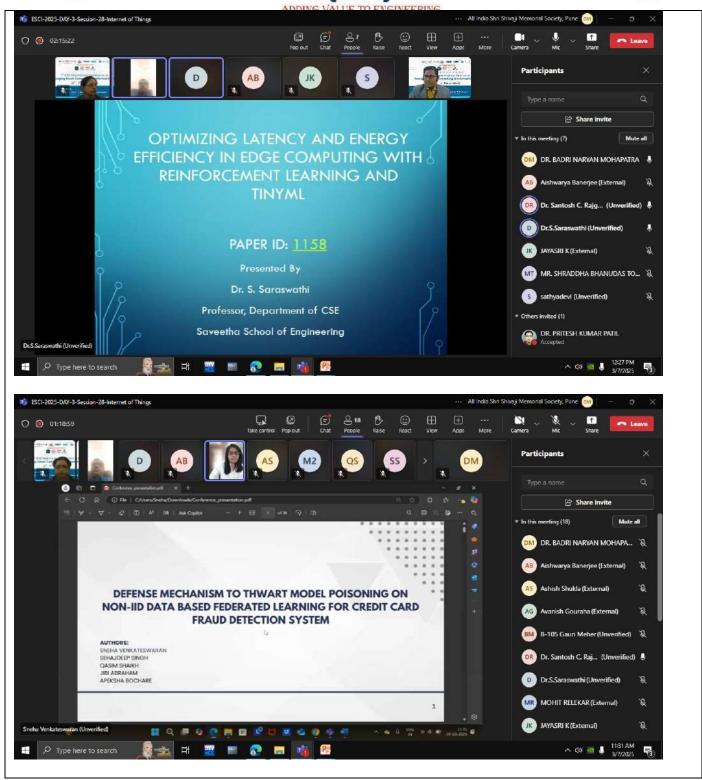
AT the end of session, Session Chair conveyed the Best Paper Title.





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Sr. No	Name of Session/Track	Best Paper Title	Name of Presenter
1	Internet of Things Session-28	Acoustic Emission Signal Localization in Steel Plate Specimen Using Neural Networks with Multi-Sensor Feature Concatenation.	Aishwarya Banerjee

Session-29			
Track - Image & Signal Processing			Dr. Ashish Vanmali, Vidyavardhini f Engineering and Technology
Day: Friday	Date: 07	//03/2025	Time: 11.00 am to 1.00 pm

Session Coordinators- An Autonomous Institute Attinks to https://tinyurdecom/BiAY-3-Sess-29-ISP Approved by AlCTE, New Delhi and Recognised by Govt. of Maharashtra

1. Mr. Prashant Prakash Accredited by NAAC with "A+" Grade | NBA - 5 UG Programmes

Mahajan

2. Dr. Shashikant

Rangnathrao Kale

Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 29: Smart Computing was successfully conducted on the third day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2024): 7th March 2025.

Total 6 Papers were presented in this session.

Paper ID: 1291 Medical Image Fusion Enhancement through Curvelet Transform Paper ID: 1313 Deep Learning Based CAPTCHA Verification Systems

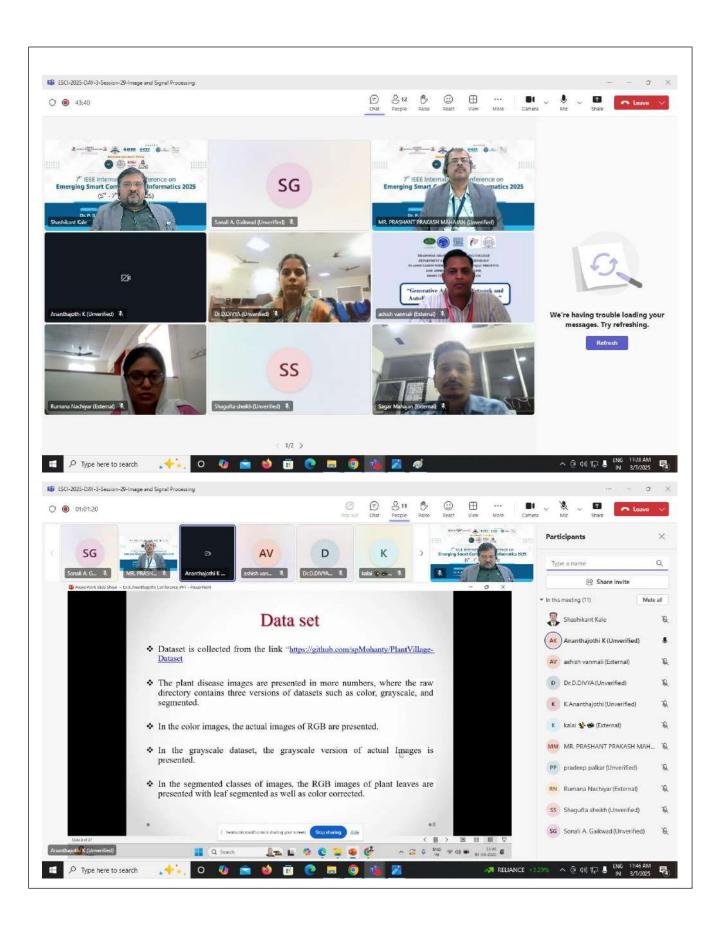
Paper ID: 1365 Hybrid Heuristic Optimization of Deep Learning Models for Robust Plant Disease Detection

Paper ID: 1368 Integrating Imaging and Clinical Data for Parkinson's Disease Diagnosis using Deep Learning

Paper ID: 1398 Optimizing construction and demolition waste Segmentation using Advanced Deep **Learning Techniques**

Paper ID: 1409 A Study on Intelligibility, Naturalness and Fluency of TTS Systems

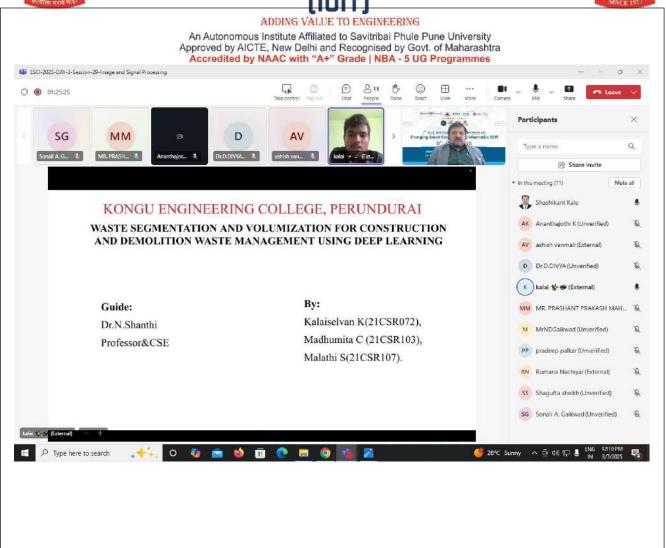
Session Chairs Dr. Ashish Vanmali, evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.





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Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Image & Signal Processing	1409	A Study on Intelligibility, Naturalness and Fluency of TTS Systems	Rumana Nachiyar M

Session-30				
Track - Smart Computing	Session Chai	Session Chair 1 Dr. Archana Chaudhari,		
	Assistant Pro	fessor Symbiosis Institute of		
	Technology I	Pune. M:8275589285		
Day: Friday	Date: 07/03/2025	Time: 11.00AM-1.00PM		
Session Coordinators-	Link- https://tinyurl.com/DAY	Y-3-Sess-30-SC		
 Dr. Ashapana Dilavar 				
Shiralkar				
2. Ms. Reshma Rajanand				
Owhal				

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Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 30: Smart Computing was successfully conducted on the second day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2024): 7th March 2025.

Total 6 Papers were presented in this session.

Paper ID: 1434: Sign Language Recognition using Deep Learning

Paper ID: 967: A Secure Digital Twin Healthcare Framework for Precision Medicine: Integrating IoMT, ML and Fog Comp

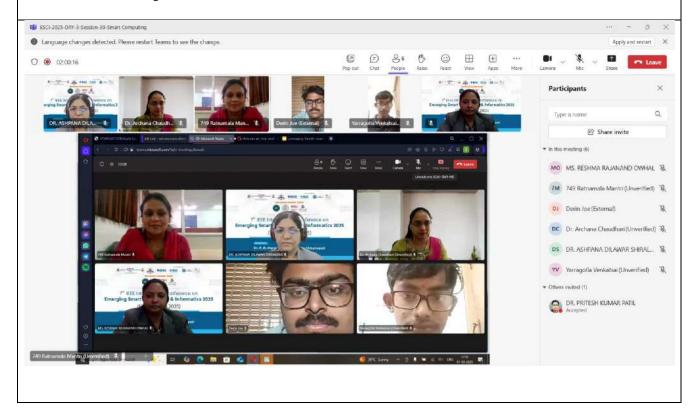
Paper ID: 5: simulation and Evaluation of a DWDM System Utilizing OptiSystem

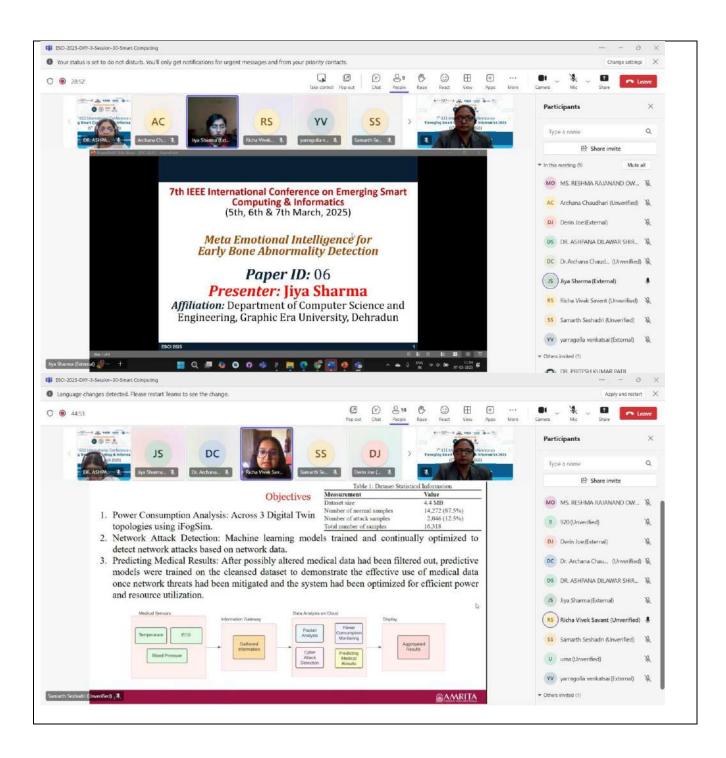
Paper ID: 6: Meta Emotional Intelligence for Early Bone Abnormality Detection

Paper ID: 920: Advancement in Explainable AI: Bringing Transparency and Interpretability to Machine Learning Models

Paper ID: 749:Leveraging Transfer Learning for Object Detection in Medical Imaging

Session Chairs Dr. Archana Chaudhari evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. AT the end of the session, the Session Chair conveyed the Best Paper Title.





Sr. No	Name of Session/Track	Best Paper Title	Name of Presenter
1	Smart Computing Session-30	Paper ID: 749:Leveraging Transfer Learning for Object Detection in Medical Imaging Session Chairs Dr. Archana	Ratnamala Mantri

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	Chaudhari evaluated the papers	
	based on the parameters:	
	Presentation Quality, Research	
	Contents, Depth of	
	Understanding of subject,	
	Effectiveness, Time	
	Management.	

Session-31						
Track - Internet of Things		Session Chair: Dr. Arti Suryavanshi, HSBPVT'S GOI FOE KASHTI				
Day: Friday	Date: 07/03/2025	Time: 11.00 am to 1.00 pm				
Session Coordinators- 1. Dr. Vandana Vishwanathrao Kale 2. Dr. Supriya Bhosale	Link- https://tir	Link- https://tinyurl.com/DAY-3-Sess-31-IoT				

Abstract of Session/keynote/Special session/tutorial –

Technical Oral Presentation Session 31: Internet of Things was successfully conducted on the third day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 7th March 2025.

Total 7 Papers were presented in this session.

Paper ID: 1274: Tiered gPTP: A Simulative Study on Balancing Time-Sync Accuracy and Coverage with Time Source Replic

Paper ID: 1322: Implementation and Functional Verification of I2C, SPI and CAN frame protocols

Paper ID: 1328: Ambisync: an IoT based Room Automation Project

Paper ID: 1360: Performance Optimization in Wireless Sensor Networks using REAMR Protocol for IoT Applications

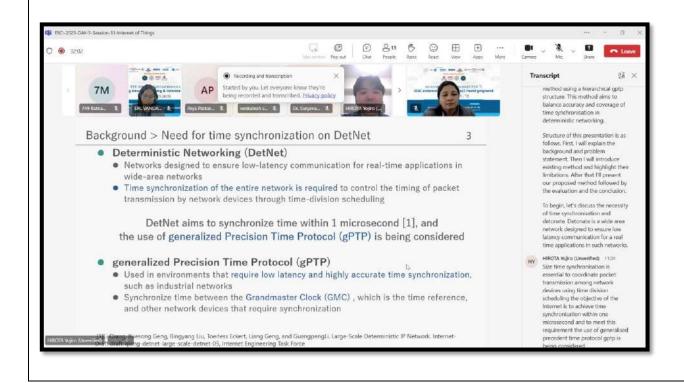
Paper ID: 1374: IoT-based Prosthetic Arm Controlled by Human Gestures

Paper ID: 1414: Design and Deployment of Anti-smog Gun for clean air in Urban areas

Paper ID: 211: Enhancing Retrieval Augmented Generation System Using Ai Models and Graph Database

Session Chairs Dr. Arti Suryavanshi evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management. At the end of session, Session Chair conveyed the Best Paper Title.

Total no. of Participants- 07



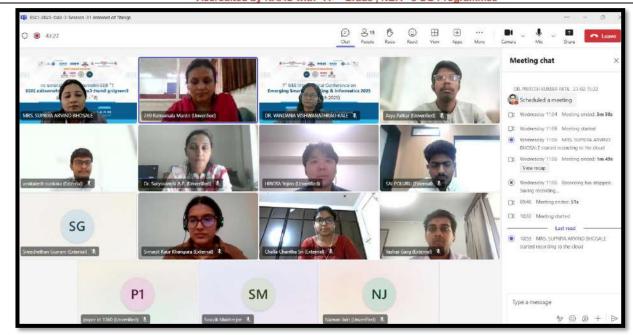


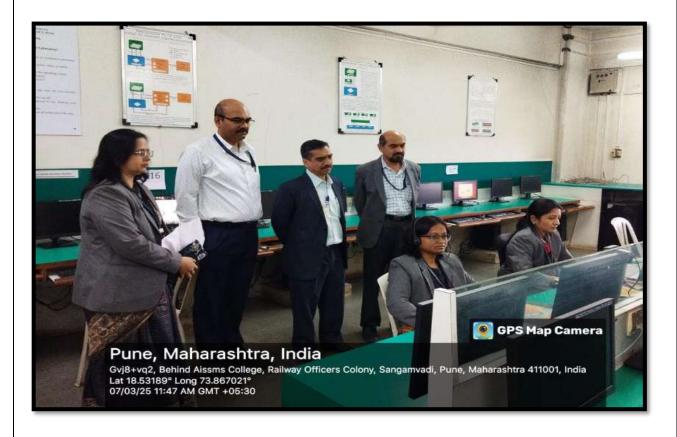
AISSMS NSTITUTE OF INFORMATION TECHNOLOGY (1017)

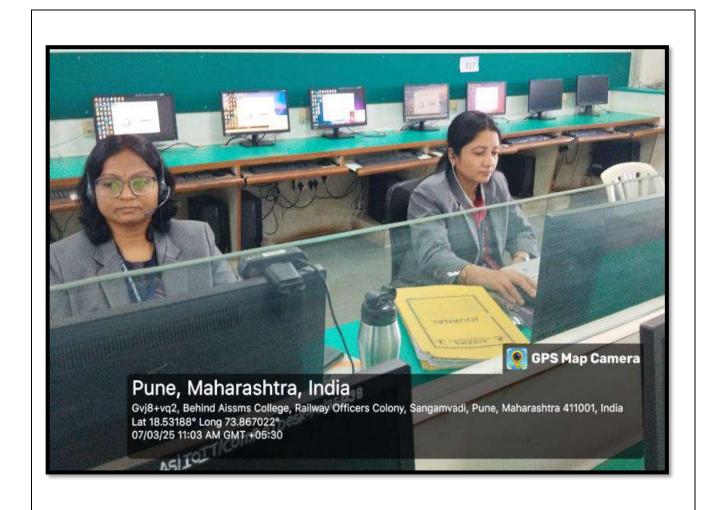


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Sr.	Name of Session/Track	Paper ID	Best Paper Title	Name of
No				Presenter
1	Session-31 Track - Internet of	1322	Implementation and Functional	Sunkara
	Things		Verification of I2C, SPI and	Venkatesh
			CAN frame protocols	

Session-32						
Track – Image and Signal Processing		Session Chair Dr. Sarika Patil, Dr. D. Y. Patil				
		Institute of Tech	nology, Pimpri, Pune			
Day: Friday	Date: 07/03/2025		Time: 11.00 am to 01.00 pm			
Session Coordinators-	Link- https://tinyurl.com/DAY-3-Sess-32-ISP					
1. Mr.Sachin Kokane						
2. Mrs Prajwal Gaikwad						

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Abstract of Session/keynote/Special session/tutorial -

Technical Oral Presentation Session 32: Image and Signal Processing was successfully conducted on the third day of 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI 2025): 7th March 2025.

Total 6 Papers were presented in this session.

Paper ID:1124: Gesture Language Translation Using Convolutional Neural Network

Paper ID:1152: Enhancing Real-Time Military Intelligence through LoRa and Advanced Data Analysis

Paper ID:1213: Efficient HACoTNet: A Novel Approach for Grape Leaf Disease Detection Leveraging Depthwise Separable

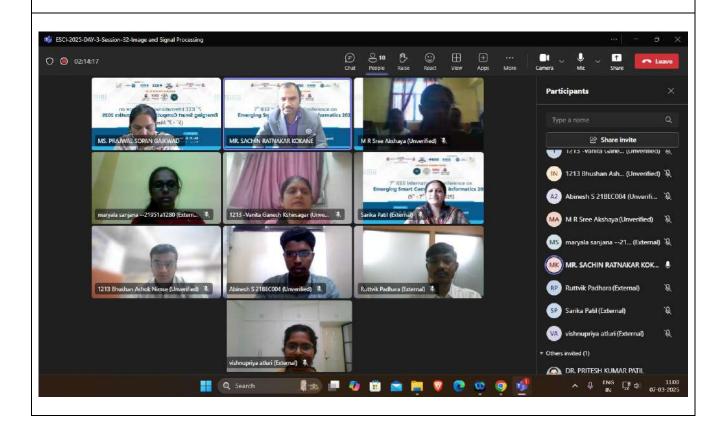
Paper ID:1242: Micro-expression analysis for security and law enforcement using deep learning

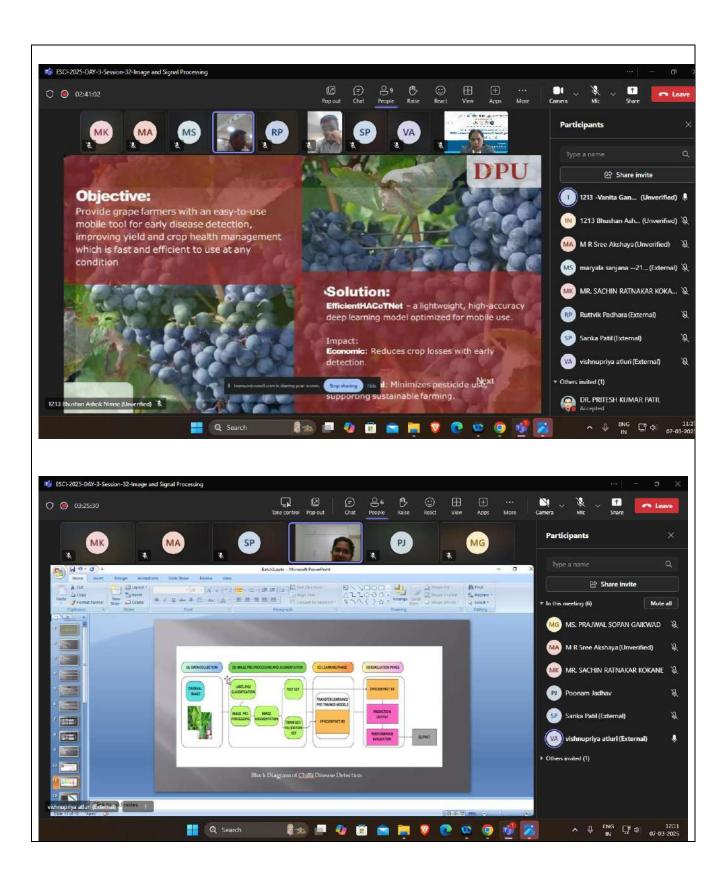
Paper ID:1245: Vigilance alertness system

Paper ID:1440: Chilli Leaf Disease Prediction System using Deep Learning Model

Session Chairs Dr. Sarika Patil evaluated the papers based on the parameters: Presentation Quality, Research Contents, Depth of Understanding of subject, Effectiveness, Time Management.

At the end of session, Session Chair conveyed the Best Paper Title.

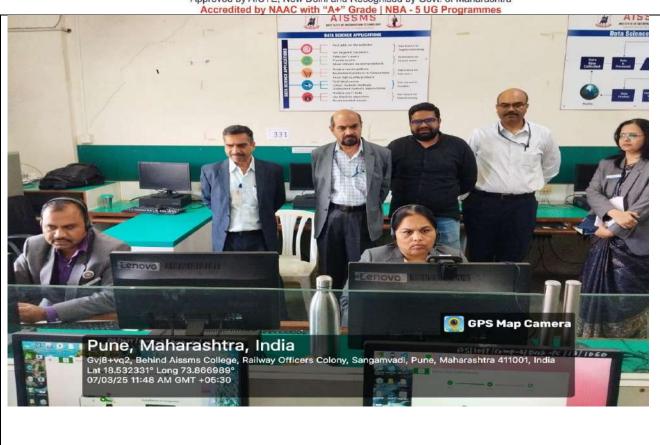






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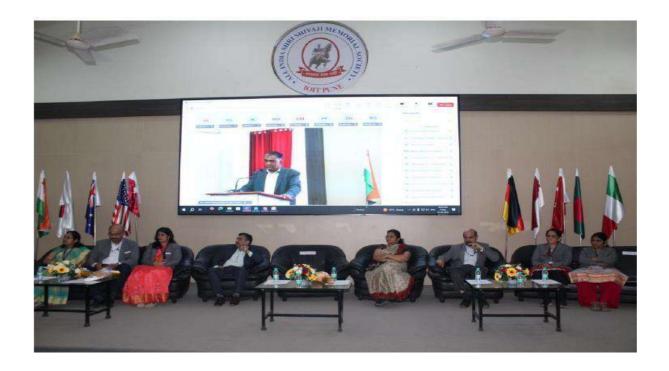
Summary of paper presentation

Sr. No	Name of Session/Track	Paper ID	Best Paper Title	Name of Presenter
1	Image and Signal Processing	1242	Micro-expression analysis for security and law enforcement using deep learning	Sanjana Maryala

Valedictory Function













Media Coverage

संशोधनासाठी जगभरातून प्रति एआयएसएसएमएस'मधील आंतरराष्ट्रीय परिषदेत १९३ शोधनिबंध कारनगर प्रतिष्ठित आणि प्रभात वृत्तसेवा व्यक्तर गाजी वृणे, दि. १८ - एआयएसएसएमएसच्या यांचे आयओआयरी महाविद्यालयात आर्टीफिशियल इंटेलिजन्स (एआय) ्राने ः संशोधनाला चालना देण्यासाठी होते. आयईईई- इमर्जिंग स्मार्ट कंप्यूटिंग अँड ऑफ 長四日 इन्फॉरमेटिक्स-ईएससीआय - २०२५ ही सातवी आंतरराष्ट्रीय परिषद आयोजित यांच्या १५१७ शोधनिबंध प्राप्त झाले आणि कॉमर्सचे प्रेसिडेंट प्रा. टाकाको हाशीमोटो करण्यात आली होती. अशाणि त्यापैकी निवडक १९३ शोधनिबंध सादर यांनीही मार्गदर्शन केले. एआयएसएसएम परिषदेचे उद्घाटन निंबकर कृषी झाले. डॉ. अनिल राजवंशी यांनी ग्रामीण सोसायटीचे मानद सहसचिव सुरेश शिंदे, हाराष्ट्र संशोधन संस्थेचे संचालक पदाश्री डॉ. णंधार आणि शास्वत विकासासाठी एआय या खजिनदार अजय पाटील आणि संस्थेचे विकार अनिल राजवंशी यांच्या हस्ते झाले. या विषयावर आपले विचार मांडले. प्राचार्य डॉ. पी. बी. माने यांनी परिषदेच्या मवारो परिषदेसाठी अमेरिका, तुर्की, नेपाळ आणि आयईईई एज्युकेशन सोसायटी आयोजनाचा हेत् स्पष्ट केला. मानद सचिव बांगलादेशातील संशोधकांनी सहभाग सिंगापूरचे अध्यक्ष डॉ. दीपक वायकर, वावर मालोजीराजे छत्रपती यांच्या मार्गदर्शनाने नोंदविला. परिषदेसाठी जगभरातून एकुण जपानच्या चिवा युनिव्हर्सिटी ऑफ परिषद यशस्वीपणे पार पडली.

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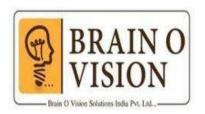


















































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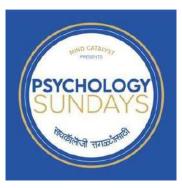












































































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ANNEXURE





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	Paper ID			First Submis	sion
Sr. no.		Paper Title	Overall similarity	Single source similarity	Decision (Plagiarism/ Plagiarism_OK)
1	3	Revolutionizing Satellite Image Classification using Deep Learning Framework	8%	2%	ОК
2	4	Hybrid Unified AI-Based Biometric Authentication: A Low- Power, High-Security Scheme	6%	1%	ОК
3	5	Simulation and Evaluation of a DWDM System Utilizing OptiSystem	16%	7%	ОК
4	6	Meta Emotional Intelligence for Early Bone Abnormality Detection	14%	2%	ОК
5	56	Shielding Software: The Vital Role of Headers in Ensuring Application Security	19%	3%	ОК
6	59	A New Maintenance Framework of WSN for Consumer and e-Commerce: A Convergence of AI, ML, and IoT	16%	2%	ОК
7	61	Encryption and Decryption of Different File Formats Using AES	13%	2%	ОК
8	72	Algorithm For Preprocessing Satellite Imagery That Uses Geometric, Atmospheric, And Radiometric Correction	16%	2%	ОК
9	88	Securing Automotives with Iris Pattern Recognition	17%	1%	ОК
10	116	Capacitated Vehicle Routing Problem using Ant Colony Optimization and PuLP Library	24%	2%	NOT OK
11	117	Neighborhood Evaluation and Scoring System	19%	2%	ОК
12	126	Effective Vulnerability Reconnaissance for Content Management System Using Skip-Fish	13%	3%	ОК
13	130	HBPSO BASED RESOURCE SCHEDULING FOR OPTIMIZATION OF COST AND MAKESPAN IN CLOUD DATA CENTERS	14%	2%	ОК
14	135	Comparative Analysis of Custom Neural Network Model and VGG-16 for Multi-class Image Classification			
15	138	Brain Tumor Classification in MRI Scans Using Shape			





ADDING VALUE TO ENGINEERING

		Features & Machine Learning Techniques			
16	145	Butterfly Optimization and Deep Learning to Classify Heart Sound Signal	22%	5%	NOT OK
17	149	Efficient Fingerprint Database Organization for Optimized Recognition	11%	2%	OK
18	155	Deep Learning for Diabetic Retinopathy Detection Using Preprocessed Fundus Images and Inception-v3	28%	2%	NOT OK
	155	Deep Learning for Diabetic Retinopathy Detection Using Preprocessed Fundus Images and Inception-v3	18%	2%	OK
19	164	Algorithmic Optimization of Coupon Pooling Application: A Machine Learning Perspective	16%	2%	OK
20	165	Human Perceptual Biases and their Analogous Prevalence in Artificial Intelligence Systems: Bias Mitigation for Dependable AI	19%	1%	ОК
21	170	Enhancing Passive Index Investing: Augmenting Volatility Harvesting with Machine Learning Models for Higher Returns	27%	15%	NOT OK
22	171	Text2Image: Generating Visuals from Words using Deep Learning	23%	2%	NOT OK
23	172	Binary Learning Cooking Algorithm with Relief for Feature Selection of High-dimensional Gene Expression Data	20%	2%	OK
24	183	Enhancing Visibility in Foggy Landmark Images: Advanced Restoration Methods	20%	2%	OK
25	190	AUTONOMOUS FOOD DELIVERY ROBOT INSIDE COLLEGE CAMPUS	17%	2%	OK
26	195	Empowering Deaf Communication: "Deep Learning Framework for Sign to Speech Translation"	27%	2%	NOT OK
27	195_2	Empowering Deaf Communication: "Deep Learning Framework for Sign to Speech Translation"			
28	211	Enhancing Retrieval Augmented Generation Systems Using AI Models and Graph Databases	16%	2%	OK
29	214	Decoding Digital Intruders: Machine Learning Strategies for	25%	2%	NOT OK





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					1
		Botnet Identification			
30	227	Performance Optimization In Dynamic Routing Protocols For Wireless Sensor Networks	24%	4%	NOT OK
31	253	Video Segmentation and Retrieval Based on Image-Driven Person Recognition for Surveillance	18%	1%	ОК
32	255	Dynamic StarCraft: Multi-Agent Generative AI for Immersive Experiences	16%	13%	NOT OK
33	265	AI Powered Plant Disease Detection And Diagnosis	18%	3%	ОК
34	274	Comparative Analysis of Advanced GAN Architectures for Robust Image Dehazing in Synthetic and Real-World Scenarios	18%	3%	OK
35	277	Saathi : Smart Cane	12%	2%	ОК
36	345	Multimodal CNN-Based Framework for Enhanced Detection and Classification of Skin Cancer and Cysts	2%	1%	ОК
37	318	Comparative Analysis of Machine Learning Algorithms for EMG Signal Classification	24%	2%	NOT OK
38	322 (2)	Hierarchical Community Detection and Network Analysis: A 2-Level Approach for Social Media Networks	19%	2%	ОК
39	339	EXAMSENTRY: SECURE, VERIFY, EXCEL	11%	1%	OK
40	356	Road Pothole Detection and Reporting System	12%	1%	ОК
41	365	AI DRIVEN RAT DETECTION FOR WAREHOUSE	14%	2%	OK
42	369	Automated Bridge Inspection and Structural Damage Detection Using YOLOv5-s	13%	1%	ОК
43	388	Spatial-Scale Sensitivity in SEBAL Evapotranspiration Estimation for Crop Health Monitoring with Sentinel-2A	20%	2%	ОК
44	389	Unveiling Customer Behavior: A Comprehensive Study on Predictive Models for Telcom Churn	19%	1%	ОК
45	427	GenAl based Data Extraction with Query-based Insights	14%	1%	ОК
46	430	Towards Precision Medicine: Deep Learning- Based Pulmonary Tuberculosis Detection in Radiographic Imaging	5%	1%	ОК
					2





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47	433	Machine Learning-Based Stock Forecasting	20%	2%	OK
48	436	American Sign Language Recognition Application	11%	2%	ОК
49	469	Indian Sign Language Detection in Virtual Reality using Leap Motion Controller	16%	2%	OK
50	471	Copyright information embedding using Steganography with Binary Lower Triangular Matrix	11%	1%	OK
51	503	Combining Speech Recognition and Machine Learning for Context-Aware English Pronunciation Assessment			
52	507	IMPROVED INCREMENTAL LEARNING FOR CLASSIFICATION USING WEIGHT SPACE ROTATION	12%	2%	OK
53	509	Machine Learning-Driven Risk Stratification in Rural Healthcare During the Pandemic: An Ensemble Voting Classifier Approach	18%	3%	ОК
54	519	Auralize: Text to Tune	19%	3%	ОК
55	540	Graph-Based Deep Learning Models for Optimized Routing in Autonomous Networks Using Reinforcement Learning	15%	4%	ОК
56	569	Harnessing AI and Machine Learning to Transform English Language Learning Experiences	19%	1%	ОК
57	618	Subterranean Guardian: Tunnel Safety and soil-Borne Emergency Data Transfer	9%	1%	ОК
58	622	Classification and Labeling Techniques of Educational Resources Based on BERT-CNN model	13%	1%	ОК
59	626	Automated Fire Suppression System for Electrical Panel Enclosures Using lot and Embedded System	13%	1%	ОК
60	631	An Associative Memory Approach to Predict Autism Spectrum Disorder	20%	2%	ОК
61	644	Deep Neural Networks for Advanced Medication Security in IoT-Enabled Smart Robotic Dispensing Cabinets	16%	1%	ОК
62	648	SkinCareNet with DermGraph: Revolutionizing Skin Cancer Detection with Adaptive Graph Intelligence Algorithms	16%	8%	ОК
63	657	Sustainable Water Management in Precision Agriculture	10%	1%	ОК
					208





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64	670	An Efficient Host Threat dectection using procsage method.docx	12%	2%	ОК
65	696	Computer Vision-Based Hand Recognition and Gesture Control for Dino Games	10%	1%	ОК
66	705	CAMICS: A Context-Aware Multi-Intent Conversational System for Enhanced Al-Driven Customer Interaction Models	21%	3%	NOT OK
67	714	Dynamic Vehicle Stability Analysis Using IoT Sensors and Bayesian Network Approach	21%	1%	NOT OK
68	722	Cloud-Integrated BLE Temperature Control and Monitoring System for Portable Transport of Temperature Sensitive Goods	8%	2%	ОК
69	731	Document Query Response Using Microsoft-Phi-3-Mini-4K	14%	5%	ОК
70	732	A Hybrid Explainable AI Framework for Enhancing Trust and Transparency in Autonomous Vehicles	17%	6%	ОК
71	737	CryptoQNet: Leveraging Quantum Computing for Enhanced Cryptocurrency Market Analysis	21%	1%	NOT OK
72	746	EduMate: Al-Based Student Support Platform with OCR and Voice Assistance	11%	2%	ОК
73	749	Leveraging Transfer Learning for Object Detection in Medical Imaging	18%	1%	ОК
74	760	TEC Variation Prediction through AI and Space Weather Analysis	13%	2%	ОК
75	762	AlertCam-An Effective Anomaly Detection System using Computer Vision	18%	1%	ОК
76	764	Improving Artificial English Academic Paper Summarization employing Cutting-Edge Transformer Models	13%	1%	ОК
77	770	ENHANCED WILDFIRE DETECTION IN FOREST AREAS VIA OPENCV WITH DEEP CONVOLUTIONAL NEURAL NETWORKS FOR SMOKE AND FLAME SEGMENTATION	9%	2%	OK
78	773	Enhancing Medical IOT data using Blockchain	10%	1%	ОК
79	787	Co-ordinate Measurement Machine Using Computer Vision	16%	1%	ок 20





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80	793	Enhanced framework for predictive analytics of infants in	16%	1%	ОК
		Neonatal integrating AI & DT			
81	798	Novel Distributed Approach for Next Best Offer using XGboost	16%	1%	OK
82	820	Optimizing Financial Security with Cloud AI:Implementing Deep Q-Network and Transfer Learning for Risk Management and Fraud Detection.	21%	2%	NOT OK
83	826	Behavior Prediction and Anomaly Detection:Leveraging ML for Online Child Safety	11%	1%	ОК
84	830	A Multimodal Anonymization Framework for MP4 Videos	13%	1%	ОК
85	839	Comprehensive Comparative Analysis of Food Classification Using YOLOv8n, VGG19, and InceptionV3	13%	1%	ОК
86	854	Secure and Transparent Smart Agriculture:Integrating Blockchain Technology with IoT for Enhanced Data Integrity and Efficiency in Agricultural System	3%	2%	ОК
87	855	DST-M2D: A Dualistic-Series Transformer Framework for Major Depressive Disorder Analysis Using Multimodal MRI Data	20%	3%	ОК
88	869	Wild-Fire and Smoke Detection for Environmental Disaster Management using Deep Learning: Comparative Analysis using YOLO variants	16%	1%	ОК
89	871	Intrusion Detection using Federated Learning with Application of Federated Dropout	21%	1%	NOT OK
90	872	Advancing Drone-Based Traffic Surveillance: A Review and Novel Framework for Attention-Guided Motion Deblurring and Compensation	20%	3%	ОК
91	873	COP-Detect: An End-to-End Transformer based Enhanced Colon Polyp Detection and Segmentation Framework Using Colonoscopy Images	16%	1%	ОК
92	888	Implementation of Autonomous Vehicle using Real-Time Image processing and Computer Vision Algorithm	18%	2%	OK
93	892	A Web-Based System for QR Code Flag Identification and DecodingWith Python and Flask	6%	1%	OK





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94	894	Hybrid Deep Learning Model for Open-Set Seed	19%	2%	OK
		Classification Using Hyperspectral and RGB Imaging			
95		Algorithmic Optimization of Coupon Pooling Application: A Machine Learning Perspective	16%	2%	OK
96	900	Federated Learning for Cardiovascular Disease Prediction	23%	4%	NOT OK
97	902	Enhancing Lung Diseases Prediction Using CNN ResNet-101 Model	7%	1%	ОК
98	908	Towards Touchless Interaction: Implementing Hand Gesture Recognition for Presentation and Media Control	14%	1%	ОК
99	916	A Hybrid Approach for Understanding Animal Behavior Using Deep Learning Techniques	16%	2%	ОК
100	917	Industrial Internet of Things Energy Efficiency:Investigating Low-Power Communication Protocols and Eco-Friendly Data Management in Manufacturing Settings	13%	1%	OK
101	920	Advancement in Explainable AI: Bringing Transparency and Interpretability to Machine Learning Models for Use in High-Stakes Decisions	15%	1%	OK
102	922	Segmentation of Brain Tumors in CT Images: A Comparative Analysis Using Convolutional Neural Network (CNN) Techniques and Support Vector Machine (SVM)	20%	2%	OK
103	927	Improving Intrusion Detection Systems using Reinforcement Learning: Responding to New Cyber Attacks and Threats	7%	1%	OK
104	937	Applications of Artificial Intelligence in Biomedicine and Healthcare: Improving Efficiency, Decision-Making, and Tailored Patient Care	14%	1%	ОК
105	943	Improving Security Detection with Machine Learning: A Scalable Solution for Real-Time Vulnerability Analysis	16%	1%	ОК
106	962	Multi-Task Learning Approach for Detecting Multiple Tumors Using CT and MRI Images	17%	2%	OK
107	967	A Secure Digital Twin Healthcare Framework for Precision Medicine: Integrating IoMT, ML and Fog Computing	14%	1%	OK
108	972	MACHINE LEARNING PROGNOSTICS FOR GENETIC	12%	3%	OK OA





ADDING VALUE TO ENGINEERING

		DISORDER PREDICTION			
109	983	Comparative Analysis of YOLOv8 and Faster R-CNN in Fire and Smoke Detection			
110	1000	Sustainable Smart Irrigation in Precision Farming using IoT	21%	3%	NOT OK
111	1004	Guava Health Monitoring Using Deep Vision: A VGG-16 Model Implementation	17%	2%	OK
112	1007	Secure Bitcoin Hardware Wallet Design, Implementation, and Security Analysis	17%	1%	OK
113	1019	LSTM Networks for Improved Environmental Monitoring and Biodiversity Conservation	17%	1%	OK
114	1024	Transfer and Bayesian Learning Approaches for Land Use and Land Cover Classification	26%	1%	NOT OK
115	1025	Prediction of Remaining Useful Life of the Space Rover Battery Using Fuzzy Adaptive Neural Learning Network	21%	2%	NOT OK
116	1027	DELAYED DRUG DELIVERY CONTROL USING IOT INFUSION PUMP	10%	2%	OK
117	1028	Explainable AI for Electronic Health Record (EHR) Analysis and Patient Risk Prediction	13%	1%	OK
118	1029	Unsupervised Learning Approaches for Workload Optimization in Cloud-Based AI Systems	17%	2%	OK
119	1053	Autoencoder-LSTM Ensembles for Predictive Analysis of Financial Churn Patterns	20%	1%	OK
120	1055	Design and Optimization of RF Self Biased Ku Band LNA with low noise, high gain.	15%	1%	OK
121	1057	Web-Kavach: Shielding Your Digital Life	15%	2%	ОК
122	1059	Optimizing Industrial IoT Predictive Maintenance Using Quantum Algorithms on Google Quantum Al	25%	2%	NOT OK
123	1065	Enhancement of Security in MANET using Modified Crow Harris Hawks Optimization Algorithm for IoT Applications	22%	5%	NOT OK
124	1066	Comprehensive Mix-Method Approach for Efficient Waste Management using IoT-Driven Solutions	24%	2%	NOT OK
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ADDING VALUE TO ENGINEERING

125	1066_2	Comprehensive Mix-Method Approach for Efficient	-	-	-
		Waste Management using IoT-Driven Solutions			
126	1073	Advanced Intelligent Pedestrian Crossing System	16%	1%	ОК
127	1080	A COMPHREHENSIVE APPROACH TO POWER MANAGEMENT IN HYBRID ELECTRIC VEHICLE	13%	2%	ОК
128	1094	Graph Convolutional Neural Network-based Bone Marrow Classification	20%	2%	ОК
129	1106	Enhancing Respiratory Health with Smart Cooling Masks and Immune System Monitoring	12%	5%	ОК
130	1124	Gesture Language Translation Using Convolutional Neural Network	19%	3%	ОК
131	1151 (2)	Advancing Carbon Emission Prediction through Machine Learning: The Impact of Fossil, Nuclear, and Renewable Energies	19%	2%	OK
132	1152	Enhancing Real-Time Military Intelligence through LoRa	15%	2%	OK
133	1156	Unravelling Emotional Well-Being: Detecting Stress in Social Media Through Advanced Deep Learning Techniques	16%	1%	ОК
134	1157	PRIVACY PRESERVING HEALTHCARE BASED ON SECURE MATHEMATICAL FOUNDATIONS OF FULLY HOMOMORPHIC ENCRYPTION (FHE)	22%	1%	NOT OK
135	1158	Optimizing Latency and Energy Efficiency in Edge Computing with Reinforcement Learning and TinyML	5%	1%	ОК
136	1166	Comprehensive Mix-Method Approach for Efficient Waste Management using IoT-Driven Solutions	24%	2%	NOT OK
137	1169	Milk Adulteration Detection Through Statistical Analysis, Spectroscopy, & Detection Through Statistical Analysis,	21%	1%	NOT OK
138	1183	Smart Prepaid Electric Meter System	16%	3%	ОК
139	1186	Multi-Model Deep Learning Framework for Autonomous Perception and Scene Understanding	19%	2%	ОК
148	1213	EfficientHACoTNet: A New Framework for Detecting Grape Leaf Diseases with Depthwise Separable Convolutions and Attention Machanisms	21%	4%	NOT OK
		Separable Convolutions and Attention Mechanisms			21





ADDING VALUE TO ENGINEERING

140	1220	Acoustic Emission Signal Localization in Steel Specimen Using Neural Networks with Multi-Sensor Feature Concatenation	17%	1%	ОК
141	1221	An Automated IoT-Enabled Real-Time Intravenous Infusion cum Remote Patient Monitoring System	18%	2%	OK
142	1229	Defense Mechanism to Thwart Model Poisoning on Non-IID Data based Federated Learning for Credit Fraud Detection System	12%	1%	ОК
143	1230	Bluetooth Vulnerabilities and Security	15%	1%	ОК
149	1236	Multimodal CNN-Based Framework for Enhanced Detection and Classification of Skin Cancer and Cysts			
144	1242	Micro-expression analysis for security and law enforcment using Deep Learning	20%	2%	ОК
145	1245	VIGILANCE ALERTNESS SYSTEM	21%	3%	NOT OK
146	1245_1	VIGILANCE ALERTNESS SYSTEM			
147	1249	Optimizing Existing SHM Systems: Retasking as a Self- Healing Solution for Improved Fault Tolerance	8%	2%	OK
150	1274	Tiered gPTP: A Simulative Study on Balancing Time-Sync Accuracy and Coverage with Time Source Replication	15%	1%	OK
151	1291	Medical Image Fusion Enhancement through Curvelet Transform	17%	7%	OK
152	1300	Dynamic Load Balancing in Cloud Computing Using a Hybrid Bidirectional LSTM -RNN with Deep Learning VM Snapshot Protocols	11%	3%	ОК
153	1313	Deep Learning based CAPTCHA VERIFICATION systems	33%	15%	NOT OK
154	1322	Implementation and Functional Verification of I2C, SPI and CAN frame protocols	19%	5%	OK
155	1328	Ambisync: An Internet of Things Approach to Room Energy Automation and Optimization	15%	3%	OK
156	1360	Performance Optimization in Wireless Sensor Networks using REAMR Protocol for IoT Applications	12%	3%	OK





ADDING VALUE TO ENGINEERING

172	SVL13	Automated Detection of Poultry Diseases Using Deep Learning and Computer Vision	18%	1%	ОК
171	SVL10	Development of Neural Interface-Based Brain-Controlled Robotic Prosthetics for Enhanced Mobility in Amputees	14%	5%	OK
170	SVL6	Advancing Personalized Medicine Using Genomic Data Analysis and Predictive Modeling	16%	6%	ОК
169	SVL4	Enhancing Data Security in Transmission Through Quantum Key Distribution in Cryptography	14%	3%	ОК
168	1440	Chilli Leaf Disease Prediction System using Deep Learning Model	20%	2%	ОК
166	1434	Sign Language Recognition using Deep Learning	16%	2%	ОК
165	1429	Innovations in Multi-Touch Attribution Models:Beyond Traditional Marketing Analytics in the Pharmaceutical Sector	10%	2%	OK
164	1414	Design and Deployment of Anti-smog Gun for clean air in Urban areas	14%	3%	ОК
163	1409	A Study on Intelligibility, Naturalness and Fluency of Text- to-Speech Systems	17%	2%	OK
162	1403	Integrating Machine Learning for PCOS Detection and femBot: A Novel NLP-Based Menstrual Health Chatbot for Women's Health Support	14%	2%	OK
161	1398	Optimizing construction and demolition waste Segmentation using Advanced Deep Learning Techniques (Semantic vs Instance segmentation)	14%	1%	OK
160	1393	Efficient Source-Level Waste Segregation Using CNN-Based Waste Classifier with IoT-Enabled Smart Bins and Mobile Application	18%	4%	OK
159	1374	IoT-based Prosthetic Arm Controlled by Human Gestures	21%	2%	NOT OK
158	1368	Integrating Imaging and Clinical Data for Parkinson's Disease Diagnosis using Deep Learning	15%	3%	ОК
157	1365	Hybrid Heuristic Optimization of Deep Learning Models for Robust Plant Disease Detection	14%	1%	ОК





ADDING VALUE TO ENGINEERING

173	SVL8	Internet of Things Applications for Real-Time Remote Patient Monitoring and Health Management Through Wearable Technologies	16%	4%	OK
174	SVL7	Innovations in Robotics and Automation to Improve Efficiency and Precision in Healthcare Delivery and Rehabilitation Systems	18%	6%	OK
175	SVL-9	Using Quantum Annealing to Solve Large-Scale Optimization Problems in Logistics and Scheduling	12%	6%	OK
176	SVL-1	Integrating Reinforcement Learning with Explainable AI for Real-Time Decision Making in Dynamic Environments	17%	7%	ОК
177	SVL2	Building Al-Driven Frameworks for Real-Time Threat Detection and Mitigation in IoT Networks	15%	6%	ОК
178	SVL3	Developing Energy-Efficient IoT Architecture with Edge and Fog Computing for Smart Cities	13%	6%	ОК
179	PA_46	Image Compression and Enhancement Using Deep Learning Algorithm	28%	5%	NOT OK
180	VY_12	A Deep Learning Approach for Multi-Disease Diagnosis with ResNet50 and Spatial Attention	18%	1%	ОК
181	PA-60	Spam Classification Using Machine Learning:Performance Evaluation and Insights	11%	1%	ОК
182	VY_05	YOLOv7 for Dental Caries Detection: Challenges in Small Object Identification	17%	3%	ОК
183	SS_6	Al and Machine Learning Applications in Hepatitis B Diagnosis: An Exploration of Techniques and Outcomes	28%	2%	NOT OK
184	SL1	PHISHING DETECTION AND RESPONSE SYSTEM WITH XGBOOST MACHINE LEARNING	13%	3%	ОК
185	PA_17	Design and Performance Evaluation of MIMO Systems for Next Generation Wireless Networks	12%	3%	ОК
186	VY_10	VY_10 Analyzing Machine Learning Frameworks for Anomaly Detection on Web Server Log Data		2%	ОК





INSTITUTE OF INFORMATION TECHNOLOGY

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