

34th IEEE International Symposium on Industrial Electronics (ISIE 2025)

Special Session on

“Emerging Trends in Deep Learning, Explainable Artificial Intelligence (XAI) and IoT for Smart Agriculture, Healthcare, and Cyber Security”

Organized by

Principal Organizer: Dr. Dilip Kumar Jang Bahadur Saini

(dilipkumar.j-cs@dsu.edu.in / dilipsaini@gmail.com)

Affiliation: Department of Computer Science and Engineering, School of Engineering
Dayananda Sagar University
Begaluru – 562 112

Co-organizer 1: Dr. Durbadal Chattaraj

(durbadal.c-cse@dsu.edu.in)

Affiliation: Department of Computer Science and Engineering, School of Engineering
Dayananda Sagar University
Begaluru – 562 112

Call for Papers

Theme: Examine how DL, TL, XAI and IoT are transforming agriculture by providing farmers with insights for optimizing crop yields, minimizing losses, and improving resource management. The advancement of ICT and Digital Technologies provides an effective medium for students, researcher and teaching professionals to reach out to the users as never before. This session is aimed to provide a platform to share their research work and findings, and to explore opportunities for collaboration and feedback under broader conference themes associated with the Information Management, Machine learning & Deep Learning. It also provides a forum for high quality reports on state-of-the-art theory, technology and applications of “Advances and innovation in Information Management, Machine Learning and information technology” as used in measurement, automation, scientific research, industry, academia and in other businesses. Rapid developments in these areas have resulted in more intelligent and accurate methods in manufacturing, telecommunication, automation, robotics, environment science, medical monitoring systems and laboratory equipment’s also. The initiative provides a focused and highly interactive forum where both researchers and technologists have the opportunity to present and discuss leading research topics, developments and future directions in this area. This session will also help scientist and researchers from different counties in networking/collaborating for better outcomes and knowledge sharing etc.

Topics of interest include, but are not limited to: (Provide a list of 5-10 special areas)

1	Artificial intelligence, Machine Learning, Virtual Reality, Augmented reality
2	Natural Language Processing
3	Internet of things & Wearable technology
4	Smart Farming
5	Smart City
6	Smart health care system
7	Deep Learning Applications, Robotics including Autonomous
8	Video Surveillance, Image Retrieval and Visual Search, Image and Video Communications, Bio-medical and Medical imaging
9	Human Computer Interaction and Graphics
10	Fuzzy Systems, Block Chain

Reviewers (Provide 10-20 names with email and affiliation address)

	Name and Affiliation	Email-address
1	Dr. Rakesh Kumar Yadav, Maharishi University of Information Technology, Lucknow, India 226013,	rkymuit@gmail.com
2	Dr. Pooja Sharma DY Patil University, Ambi, Pune	poojasharma861984@gmail.com
3	Dr. Amruta Vijay Surana Suman Ramesh Tulsiani Technical campus Faculty of Engineering, Khamshet, Pune-410405	amruta.surana@gmail.com
4	Dr. Prajwalasimha S N Dept. of CSE (Cyber Security), School of Engineering, Dayananda Sagar University, Bangalore	prajwalasimha-cs@dsu.edu.in
5	Dr. T Y Satheesha, REVA UNIVERSITY, Rukmini Knowledge Park, Yelahanka, Kattigenahalli, Bengaluru, Sathanur, Karnataka 560064	ty.satheesha@reva.edu.in
6	Dr. P V Bhaskar Reddy, REVA UNIVERSITY, Rukmini Knowledge Park, Yelahanka, Kattigenahalli, Bengaluru, Sathanur, Karnataka 560064	bhaskarreddy.pv@reva.edu.in
7	Dr. Vijay N. Patil Pimpri Chinchwad University, Sate Maval Pune. Pin-412106	vvnnpp2002@gmail.com
8	Dr. Swarnalatha. K, Maharaja Institute of Technology, Thandavapura. Mysore.	swarnapradu@gmail.com
9	Prof K Meena, GITAM deemed to be University Bengaluru	mgurupar@gitam.edu
10	Dr. G. Parthasarathy, REVA UNIVERSITY, Rukmini Knowledge Park, Yelahanka, Kattigenahalli, Bengaluru, Sathanur, Karnataka 560064	parthasarathy.g@reva.edu.in, amburgps@gmail.com
11	Dr. Mohit Gangwar, SIRT, Sage Group of Institutions, Bhopal	mohitgangwar@gmail.com
12	Dr. Priya Mathur, Poornima Institute of Engineering & Technology, Jaipur – 302022 (Rajasthan).	drpriyamathur21@gmail.com
13	Dr. Umesh Trambakrao Kute, Pimpri Chinchwad University, Sate, Maval (PMRDA) Dist.: -Pune 412106	umeshtkute@gmail.com
14	Dr. Pallavi Pankaj Ahire, Pimpri Chinchwad University, Sate, Maval (PMRDA) Dist.: -Pune 412106	Pallavi.ahire@pcu.edu.in
15	Dr. Kamlesh Meshram, Pimpri Chinchwad University, Sate, Maval (PMRDA) Dist.: -Pune 412106	kamlesh.meshram2007@gmail.com

Submission Procedure:

All the instructions for paper submission are included in the conference website: <https://ieee-isie-2025.org/>

Deadlines:

Full paper submission:	February 28, 2025
Paper acceptance notification:	April 15, 2025
Camera-ready paper submission:	May 14, 2025

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