







International Conference on

Smart Materials, Virtual
Intelligence, Robotics
Automation using
Advanced Electronics
and Computational Designs
(ICSVREC) - 2025



Hosted by: SVR Engineering College (Autonomous), Nandyal, A.P - 518503.

April 04 - 05, 2025

The International Conference on Smart Materials, Virtual Intelligence and Robotics Automation using Advanced Electronics and Computational designs (ICSVREC) is a global symposium on cutting-edge technologies. The theme of the conference is focused on the convergence of emerging areas to create innovative solutions for a smarter, more connected world. The conference program features keynote orations, technical sessions, and panel discussions that showcase the latest advancements and trends in the field, encompassing topics such as intelligent systems, artificial intelligence, machine learning, robotics automation, advanced electronics, and computational models. The conference provides a dynamic platform for researchers, industry professionals, and students to engage in discussions, and exchange novel ideas. We request participants to join a vibrant community of experts shaping the future of advanced technologies. This conference provides a unique opportunity for interdisciplinary collaboration, knowledge sharing, networking opportunities, and professional growth.

Co-Convener: Dr.A.Ravi Teja | E-Mail: icsvrec@gmail.com

International Key note Speakers



Dr Bhavani Prasad Yalagala Research Manager University of Glasgow, U.K



Dr. Anuj Kumar Goel Focus College BC · mos Abbotsford, British Columbia, Canada



Satyaranjan Bairagi, PhD ETH Zurich, Postdoctoral Researcher

National Key note Speakers



Dr Y.Prabhakara Rao
Centre for Nano Science and
Engineering (CeNSE)
Indian Institute of Science (IISC)
Bangalore



Dr. Ripudaman Singh
Assistant Professor
Department of Electronics &
Communication Engineering
IIT Guwahati



Prof. U S N Raju,PhD Associate Professor, Dept of CSE NIT ,Warangal



Prof. (Dr.) Rudra Rameshwar M.Tech. & Ph.D. (I.I.T. Roorkee) C T.I.E.T. Patiala (Punjab) India



Dr Argha Sarkar M.Tech & Ph.D – NIT Arunachal Pradesh, (MeitY, Govt.of India,) REVA University



Dr.Mohankumar N
Professor- Research.
Symbiosis Institute of Technology
Nagpur



Dr. Neeraj Kumar Misra
Associate Professor
Vellore Institute of Technology
(VIT) -AP University, India

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- Developer, EISPL.Er. B Bharath Kumar, Embedded Developer, EISPL

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- Dr Mayuri Kundu, Associate Professor, REVA University, Bangalore.
- Dr. K. Mahesh Babu, Associate Professor, Dept of ECE SV Colleges, Tirupati.
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- M. Sree Kanth, BDM, EISPL
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- Mr.P.Maduraghava, Asst.Professor, SVREC
- Mr S Mohan Das, Asst.Professor, SVREC
- A.D.Sivarama Kumar, Asst.Professor, SVREC
- K. Alluraiah, Asst.Professor ,SVREC

Registration chairs

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- Miss.N.Divya Manjira, Asst.Professor ,SVREC
- P. Manjusha, Asst.Professor ,SVREC
- Mr.B.V.Amarnath Reddy, Asst.Professor, SVREC

Conference Tracks

We welcome submissions from, but not limited to, the following areas:

Track - 1: Computer Science, Artificial Intelligence, and Machine Learning (CS-AI-ML)

- Explainable AI (XAI): Developing techniques to interpret and explain AI decisions.
- Adversarial Robustness: Designing AI systems resistant to adversarial attacks.
- Transfer Learning: Developing methods to transfer knowledge across different AI tasks.
- Quantum Machine Learning: Exploring the intersection of quantum computing and machine learning.
- Human-AI Collaboration: Designing AI systems that collaborate effectively with humans.
- Natural Language Processing (NLP): Developing algorithms and models for NLP tasks.
- Computer Vision: Developing algorithms and models for image and video analysis.
- Robotics and Autonomous Systems: Developing intelligent robots and autonomous systems.
- Cybersecurity and Privacy: Developing secure and private AI systems.
- Reinforcement Learning: Developing algorithms and models for reinforcement learning.
- Deep Learning: Developing algorithms and models for deep learning.
- Human-Computer Interaction: Designing interfaces for effective human-computer interaction.
- Data Science and Analytics: Developing methods and tools for data analysis and visualization.
- Cloud Computing and IoT: Developing cloud-based IoT systems and applications.
- Artificial General Intelligence: Exploring the development of artificial general intelligence.

Track - 3: Mechanical, Robotics, and **Automation Engineering (MRAE)**

- Soft Robotics: Developing robots with flexible and adaptable bodies.
- Swarm Robotics: Designing and controlling large groups of robots.
- Human-Robot Interaction: Developing robots that interact safely and effectively with humans.
- Artificial Intelligence in Robotics: Developing AI-powered robots and robotic
- Micro and Nano Robotics: Developing robots at the micro and nano scale.
- Robotics and Autonomous Systems: Developing intelligent robots and autonomous
- Mechatronics and Robotics: Developing novel mechatronic systems and robots.
- Computer-Aided Design and Manufacturing (CAD/CAM): Developing novel CAD/CAM techniques and systems.
- Finite Element Methods and Analysis: Developing novel finite element methods and analysis techniques.
- Thermal Engineering and Heat Transfer: Developing novel thermal engineering and heat transfer techniques.
- Fluid Mechanics and Dynamics: Developing novel fluid mechanics and dynamics techniques.
- Materials Science and Engineering: Developing novel materials and material processing techniques.
- Robotics and Automation in Manufacturing: Developing novel robotics and automation techniques for manufacturing.
- Human-Machine Interface: Designing interfaces for effective human-machine interaction.
- Sustainable and Renewable Energy Systems: Developing novel sustainable and renewable energy systems.

Track - 5: Healthcare

- Biomedical Sensors and Wearable System
- Therapeutic and Diagnostic Systems and Technologies
- Biomedical and Health informatics
- Translational Engineering for Healthcare Innovation and Commercialization
- Biomedical Signal and Image Processing Pattern Recognition

Track - 7: Digital Transformation in Various **Sectors of Economy**

- Digital transformation in Logistics
- Digitization and Inclusivity in Banking and Financial Services Sector
- Digital Modeling practices in Manufacturing
- E commerce and E business

Track - 2: Electrical, Electronics, and Communication Engineering (EECE)

- VLSI Design and Testing: Developing novel VLSI design and testing techniques.
- Wireless Communication Systems: Designing and optimizing wireless communication systems.
- Sensor Technology and Applications: Developing novel sensor technologies and applications.
- · Micro and Nano Materials and Devices: Developing novel micro and nano materials and devices.
- Communication Technologies and Networks: Developing novel communication technologies and networks.
- Nano and Micro Electronics: Developing novel nano and micro electronic devices and systems.
- MEMS and NEMS: Developing micro and nano electromechanical systems.
- IoT and Wireless Sensor Networks: Developing IoT and wireless sensor network systems.
- Advanced Materials and Devices: Developing novel materials and devices for electrical and electronic applications.
- Quantum Computing and Quantum Information Processing: Exploring the principles and applications of quantum computing.
- Power Electronics and Converters: Developing novel power electronic devices and systems.
- Control Systems and Automation: Developing novel control systems and automation techniques.
- Electromagnetic Compatibility (EMC): Developing techniques for electromagnetic compatibility.
- High-Speed Digital Design: Developing novel high-speed digital design techniques.

Track - 4: Civil, Infrastructure, and Smart Systems Engineering (CISS)

- Smart Cities and Infrastructure: Developing intelligent and sustainable urban
- Internet of Things (IoT) in Civil Engineering: Applying IoT technologies to civil engineering applications.
- Sensor Systems for Infrastructure Monitoring: Designing and deploying sensor systems for infrastructure monitoring.
- Cyber-Physical Systems in Civil Engineering: Developing secure and efficient cyber-physical systems for civil engineering applications.
- Sustainable and Resilient Infrastructure: Designing infrastructure systems that are sustainable and resilient.
- Building Information Modeling (BIM): Developing novel BIM techniques and applications.
- Construction Management and Engineering: Developing novel construction management and engineering techniques.
- Transportation Engineering and Management: Developing novel transportation engineering and management techniques.
- Smart Water management.

Track - 6: Nano Materials

- Biomaterials & Biosensing
- Materials for energy storage conversion
- Computational material science and modeling
- Surface engineering thin film & and coating

Materials bonding Electronics & Photonics

- Emerging materials and the latest technologies
- Materials for green energy storage
- Materials for Sustainable Development
- Material recycling & waste management

Track - 8: Next-Generation Communication Systems

- Internet of Things (IoT),5G and Beyond
- Edge Computing and Edge Networking
- Software-Defined Networking (SDN) and Network Function Virtualization (NFV)
- Satellite Communication Systems
- Wireless Sensor Networks and Smart Grid Communication
- Blockchain and Distributed Ledger Technologies (DLT)
- Emerging Communication Technologies

About the Host Institution - SVR Engineering College (A), Nandyal.

The SVR Engineering College (Autonomous) is established in 2007 and is located on National Highway NH-18, just seven kilometers from Nandyal town in Kurnool District, Andhra Pradesh. It is situated on a picturesque 13-acre campus surrounded by green fields. The college is affiliated to JNTUA, Ananthapuramu, approved by AICTE, New Delhi, and accredited by NAAC. Additionally, the Departments of ECE and CSE hold accreditation from NBA. Also, our institute has been granted Autonomous Status starting from the academic year 2024-25. The facilities at the college are meticulously designed to create an ideal environment for teaching and learning. Our campus features a spacious library with a vast collection of resources, a canteen, and well-equipped laboratories furnished with state-of-the-art computers, equipment, and gadgets. While providing quality education through the use of modern teaching methods and technologies, the college emphasizes extracurricular activities and physical education to foster the all-round development of its students. At SVREC, we closely monitor industry developments worldwide and strive to provide students with the technical education they need to succeed in the professional world. The college motto, "Towards Excellence in Higher Education", conveys a message to students that they should strive for excellence in education, culture, and accomplishments.



Important Dates

Paper Submission Deadline: Monday, Feb 15, 2025

Acceptance Notification: Tuesday, Feb 25, 2025 (onwards)

Registration Deadline: Saturday, Mar 05, 2025

Conference Dates: April, 04 - 05, 2025 (Friday and Saturday)

Paper Format Link

Link:

Conference Website



Link:

Review Process & Indexing

Best Paper Awards 🗭



- Technical Programme Committee of DISCOVER will select one best paper in each of the tracks mentioned above.
- Best paper award will be announced and distributed during the conference

Paper Submission Link

Link:

E-Mail 👰

icsvrec@gmail.com

The full paper must be submitted through the platform (website). Email submissions are accepted by exception only. Final paper with Plagiarism of less than 10% automatically goes in the pipeline for peer review controlled by the Microsoft Conference Management tool kit (CMT). Each paper is reviewed in a double-blind peer review process. The double-blind review process ensured that both authors and reviewers remained anonymous during the whole process. All the Accepted and Presented papers will be submitted for inclusion in Conference proceedings, subject to meeting the scope and quality requirements, and articles will be summitted to indexing platforms and is subjected to quality parameters and indexing guidelines.

Submission guidelines 🧧

The full paper must be submitted through the platform Microsoft Conference Management Tool Kit (CMT) and Email submissions are accepted by exception only. By submitting his paper electronically/or by email, Each author confirms that he is aware of the Publication Ethic & Malpractice Statement and the Privacy Policy of the event. After submissions, the papers automatically go in the pipeline for peer review. Process controlled by the Microsoft Conference Management tool kit (CMT). Authors are expected to have Scope, Novelty, Validity: data reported, analyzed, and interpreted correctly, Clarity, Compliance, and significant contribution in their articles and must meet as the guidelines of format. The papers need to be submitted online, where they will be reviewed, and the decisions and reviewer's comments will be sent to the corresponding author. The minimum paper length is 6 pages. Authors more than 6 pages of paper should pay Rs 500/- per page or 10 USD.

Registration Charges ₹

Type of Registration	Indian Author	Foreign Author
Industry Participants	12,000/-	USD 350
Academics / Research Scholars (Non - IEEE)	10,500/-	USD 300
Academics / Research Scholars (IEEE members)	10,000/-	USD 250
Non - IEEE Students	9,500/-	USD 200
IEEE Students	9,000/-	USD 150

Conveners:

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