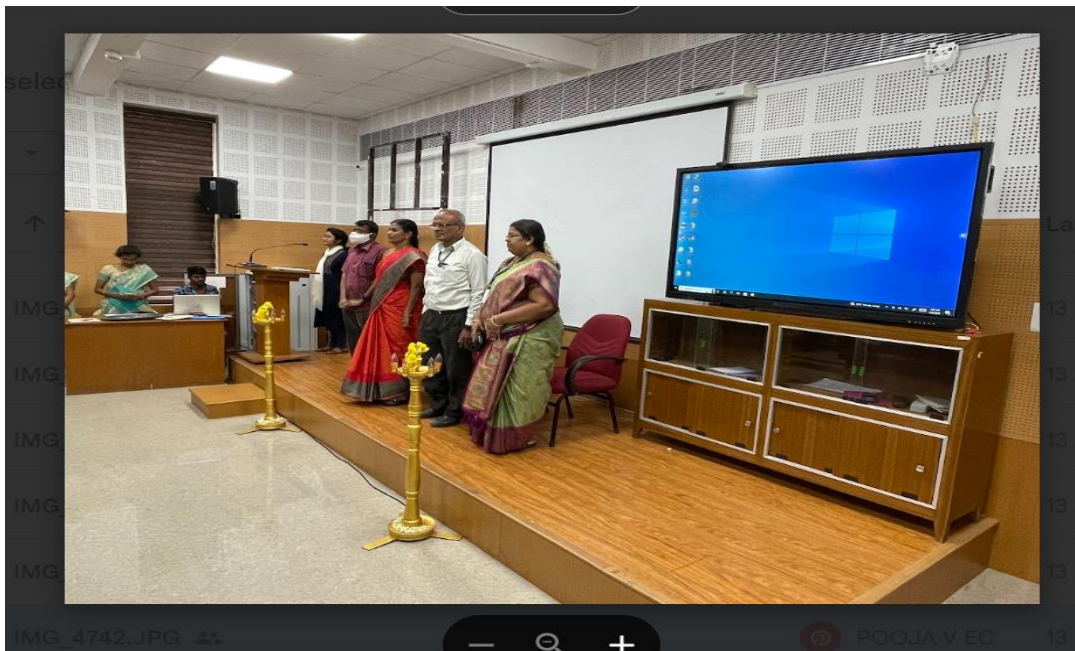


A Report on NCSPCN'23 organized on May 9th, 2023 by the Department of ECE.

The Department of Electronics and Communication Engineering, Sri Venkateswara College of Engineering organized a One-day National Conference on “Signal Processing, Communication and Networking” NCSPCN'23 on May 9th, 2023.

The conference was coordinated by Dr.R. Gayathri, Professor, and Ms.S.M. Mehzabeen Assistant Professor of the Department of ECE. The organizing team members were Ms. T. J. Jeyaprabha, Assistant Professor, Ms. R. Kousalya, Assistant Professor, Ms. B. Sarala, Assistant Professor, Ms. S. M. Mehzabeen, Assistant Professor, Dr. A Prasanth, Assistant Professor, Dr. M Kavitha, Assistant Professor, , Mr.L.K. Balaji Vignesh, Assistant Professor, Mr.D.Silambarasan, Assistant Professor, and Mr.K.Ragupathi,, Assistant Professor of the Department of ECE.

The conference was started with the prayer song, sung by Mr. B. Sankara Narayanan, II year ECE, SVCE. Dr R. Gayathri, Professor, Department of Electronics and Communication Engineering addressed the gathering and gave the welcome address.



The special address was given by Dr. R. Gayathri, Professor, SVCE. Dr. R. Gayathri, Professor, introduced the chief guest Dr. **Priyanka Kokil**, Associate Professor, Electronics & Communication Engineering, Indian Institute of Information Technology Design and Manufacturing, Kanchepuram. The Conference was formally inaugurated by the Dr. S . Muthukumaran, HoD, ECE, by releasing the proceedings of NCSPCN' 23.

The chief guest Dr. **Priyanka Kokil** gave the Keynote address on the topic, “Machine learning and deep learning techniques in Medical Image Processing” in which she elaborated about the including natural language processing, automatic speech recognition, and computer vision to deliver robust systems such as driverless cars, automated translation, etc, their advancements, and the various research issues to be addressed.

The inaugural address was followed by paper presentation sessions, which was conducted in three sessions. Session-I was in the field of VLSI and was chaired by Dr. V. Amudha, Professor, ECE, Saveetha University, Dr. M. Kavitha, Assistant Professor, ECE, SVCE. Session-II was chaired by Dr. Vanitha, Associate Professor, ECE, Saveetha University, and Dr. R. Gayathri, Professor, ECE, SVCE.

Session-III was chaired by Dr. G. Sathish Kumar, Professor, ECE, SVCE and Dr. N.Kumarathan, Professor, ECE, SVCE.

After the technical sessions got over, a Keynote Address was given by the chief guest Dr. Jeylakshmi, Professor, Anna University, CEG Campus, Chennai on the topic “Artificial

Intelligence”, who was introduced by Ms. SM Mehzabeen, Assistant Professor, ECE.

Following the keynote address, Dr.S.Muthukumar, HOD, ECE, gave the Valedictory Address and announced three best paper awards and cash reward of 1000/- from each of the technical sessions. The titles of the best papers are as follows: 1) Early detection of respiratory illness, Sri Sairam Engineering College, 2) Activity recognition in wearables, SVCE, 3) Design of an implantable antennas for biomedical applications, Dr.Mahalingam College of Engineering and Technology, Pollachi. & Sri Eshwar College of Engineering and Technology, Coimbatore.

A total of 52 papers of good quality were selected by the review committee based on the novelty of the work relevant to the latest research topics and the real-world applications. 46 papers were presented in the conference. The extended version of all the presented papers will be published in the following journals a) International Journal of Engineering Research, b) International Journal of Electronic Devices and Networking, c) Turkish Journal of Computer and Mathematics Education, as per the choice of the prospective authors.

The conference was concluded with the Vote of Thanks by Dr.S.R.Malathi, Associate Professor, ECE, SVCE. On behalf of the Department of ECE, the coordinators and organizers expressed their gratefulness to the sponsor IETE – Chennai and to the participants across various colleges. We express our deep sense of gratitude to our Management and Dr.M.Sivanandham, Secretary, SVEHT for the constant support and guidance for all the activities of the ECE Department.

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

**National Conference on Signal
Processing, Communication and Networking**

NCSPCN-2023
May 9th, 2023



Robotics and Automation



Communication and Networks



Computer Networking

CONFERENCE REPORT

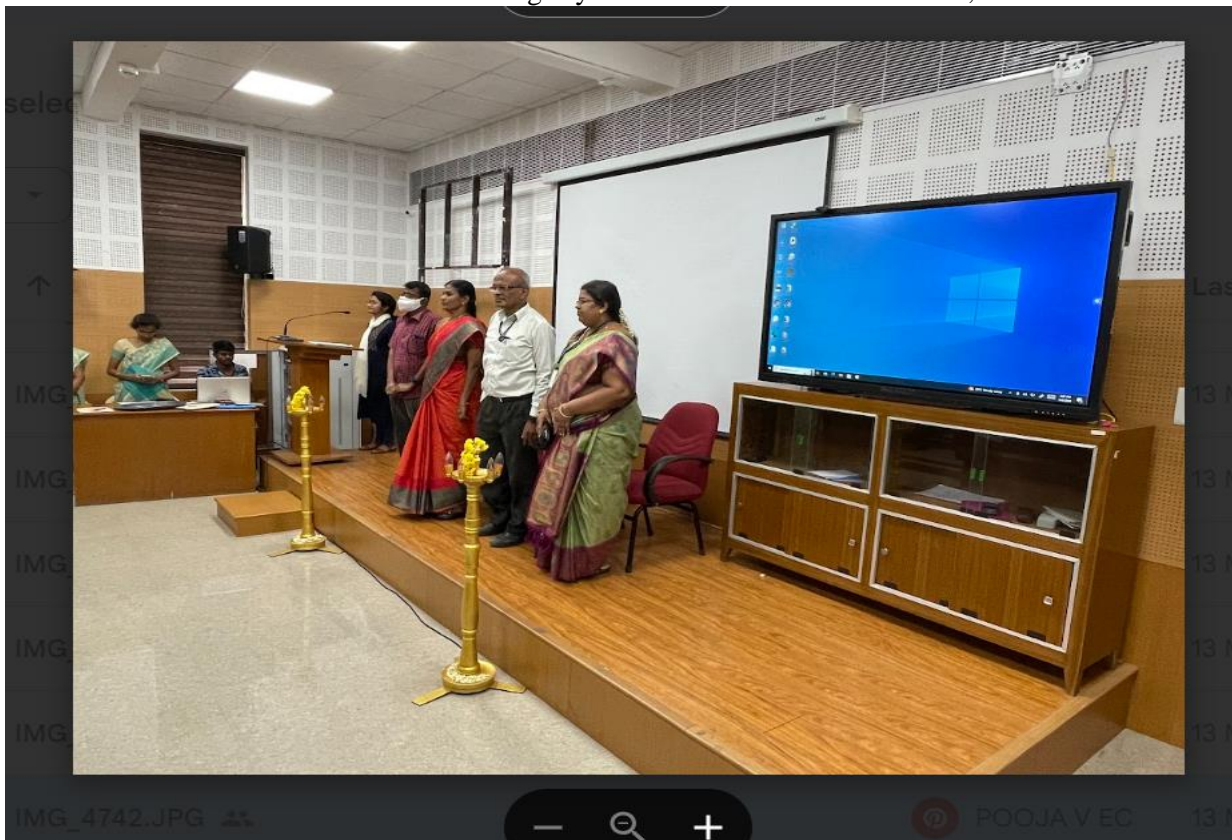
The NATIONAL CONFERENCE ON SIGNAL PROCESSING, COMMUNICATION & NETWORKING (NCSPCN-2023) was organized by Electronics and communication department, Sri Venkateswara College of Engineering , India. The conference was initiated in May 9th 2023. The main aim of this conference was to bring together leading academicians, researchers, technocrats, practitioners, and students to exchange and share their experiences and research outputs on all aspects of Engineering. It was also meant to provide a premier interdisciplinary platform to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the field of communication engineering. The conference preparations started with the call for abstracts; 102 abstracts were received out of which 52 were accepted. The next step was the call for papers, and out of 61 papers submitted by authors, 52 were accepted for oral presentations and made its way to the Conference Proceedings. Selected research papers

have been compiled and edited in the form of Conference Proceedings

The conference maintained a high-quality peer-review process for all the manuscripts submitted, starting with a primary evaluation that included a plagiarism check for the original contents. Rejections at this stage had either serious scientific flaws, very poor grammar or were outside the aim and scope of this Conference. Those that met the minimum criteria were passed on to experts in the domain for review. Single-blind review process was employed, where the reviewer remained anonymous to the authors throughout the process. Reviewers were requested to decide on accepting/rejecting the submitted paper, along with suggestions to improve the quality of the paper. After getting the review report, authors were informed of acceptance/rejection.

The Conference Format

Inaugural Session: Dr. **Priyanka Kokil**, Associate Professor, Electronics & Communication Engineering, Indian Institute of Information Technology Design and Manufacturing, Felicitations by Dr.R.Gayathri, SVCE. Release of the Conference Proceedings by Dr. S. Muthukumara HoD ECE, SVCE.

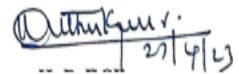


This summary captures the one-day program of presentations and keynote addresses, which took place from the 9th May 2023. The event brought together some 160 plus research scholars, members of faculty, students, and key officials nationally and internationally to discuss the recent advances in signal processing engineering with focus on recent trends. It concluded with a set of presentations of real-world cases describing new and noteworthy initiatives relevant to the conference theme.

The first day of the conference started with an inaugural session with a welcome note and conference overview by Dr. Seema K. Nayar, Chair of ICCESP 2021 and Professor, TKM College of Engineering. This was followed by the Presidential Address by Mr. Bysakh Bhasi, Chairman, Habilete Learning Solutions Pvt. Ltd. The inaugural address was by Mr. N.K. Premachandran, Member of Parliament and Ex-Minister of Water Resources, Government of Kerala. Felicitations were given by Dr. Rajasree M.S., Hon'ble Vice-Chancellor, APJ Abdul Kalam Technological University, Dr. Kancheepuram N. Gunalan, Outgoing President, American Society of Civil Engineers, Dr. Elias B. Sayah, Chief Patron ICCESP 2021 and Director Region 10, American Society of Civil Engineers and Dr. T.A. Shahul Hameed, Principal, TKM College of Engineering. The release of the conference proceedings was carried out by Dr. M. Sirajuddin, Professor and Head of the Department of Civil Engineering, TKM College of Engineering and a vote of thanks was proposed by Prof. Arun Baby Zacharia, Dean (Quality Assurance), Basелиos Mathews II College of Engineering. The inaugural session ended with a keynote lecture "Climate and Construction: Chained by Carbon" by Dr. Narayanan Neithalath, Professor, School of Sustainable Engineering and the Built Environment, Arizona State University.



Coordinato



HoD-ECE