National Conference on Signal Processing,
Communication and Networking
(NCSPCN-24)
16 th April 2024
10 April 2024

Proposal:

SRI VENKATESWARA COLLEGE OF ENGINEERING Department of Electronics and Communication Engineering

submitted to: The Principal

Date: 29th Feb 2024

Through HOD - ECE

 ${\tt Subject-Request\ to\ approve\ the\ proposal\ for\ conducting\ National\ Conference-regarding}$

Ommunication, and Networking (NCSPCN-2024) on April 16, 2024 (Tuesday) as part of the research activities. It is planned to have two experts for the keynote address from the Indian Institute of Technology, Madras, or from the College of Engineering, Guindy, Anna University, and two session chairs. The technical programme includes a paper presentation session and a poster presentation session. The targeted audiences are research scholars, faculty members from various engineering colleges, and UG and PG students. The estimated budget is Rs. 45,000/-. The detailed breakdown of estimated expenses is given below.

BUDGET for National Conference - NCSPCN 2024

PROJECTED EXPENSES	Amount in INR
Honorarium & Transport for the experts [2 Key note speakers (5000x2), Session Chairs (3000x2)]	16,000/-
Stationary and Certificates	3000/-
Award for Best - Paper Presentation	3500/-
(2000+1000+500)	2500/-
Brochures, stamps and banners	7500/-
Lunch and Snacks	5000/-
Pre - conference printing	7500/-
Publications of Proceedings	45,000/-
Total Projected Expenditure	Amount in INR
Expected Revenue	Amount in 11 12
Registration Charges for expected 30 participants (Rs.750/participant)	22,500/-

Any additional revenue generated through the conference will be returned to the college. We request you to kindly approve the proposal for conducting the 'National Conference on Signal Processing, Communication and Networking, NCSPCN-2024'. I request you to kindly sanction the advance amount of Rs 22,500/- for the smooth conduction of conference.

Kindly do the needful.

Thank you

Dr. R. Gayathri Co-ordinator

Dr. G.A. Sathish Kumar 25 HOD-EC

permitted, if budgeted Dearrah 2013/24.











Sri Venkateswara College of Engineering

(An Autonomous Institution Affiliated to Anna University, Chennai)

NATIONAL CONFERENCE on SIGNAL PROCESSING, COMMUNICATION & NETWORKING (NCSPCN-2024)

16 th APRIL, 2024

MORE INFO

ABOUT THE COLLEGE

Sri Venkateswara College of Engineering (Autonomous), a premier self-financing engineering college was established in the year 1985 and is managed by Sri Venkateswara Educational and Health Trust. The college offers 12 undergraduate and 7 postgraduate programs in Engineering and Technology. These programs are approved by AICTE and affiliated with Anna University, Chennai. The college attained autonomous status in the year 2016. The college is accredited by National Assessment and Accreditation Council (NAAC) with A+ grades in the year 2022. The National Board of Accreditation has accredited many of the eligible programs. The college is an ISO 9001:2015 certified institution. The college is situated in a serene environment about 37 km from Chennai and located on Chennai – Bangalore National Highway (NH4) at Pennalur, Sriperumbudur in the Kancheepuram district.

ABOUT THE DEPARTMENT

The Department of ECE was started in the year 1985 and is presently accredited by the NBA. The postgraduate program (M.E) in Communication Systems was started in 2002 and Applied Electronics in 2012. There are about 38 faculty members in the department and I4 of them are doctorates. The department is well equipped with lab facilities and software tools like IE3D, ADS, CST Studio, Lab View, Tanner Tools, Cadence, MATLAB, and PCB Prototype Machine.

Vision

To excel in offering value based quality education in the field of Electronics and Communication Engineering, keeping in pace with the latest developments in technology through exemplary research, to raise the intellectual competence to match global standards and to make significant contributions to the society.

Mission

- To provide the best pedagogical atmosphere of highest quality through modern infrastructure, latest knowledge and cutting edge skills.
- To fulfill the research interests of faculty and students by promoting and sustaining in house research facilities so as to obtain the reputed publications and patents.
- To educate our students, the ethical and moral values, integrity, leadership and other quality aspects to cater to the growing need for values in the society.

ABOUT IETE

- · IETE Chennai Centre being the head of all ISFs surrounding the demography of Chennai, has been a keen supporter towards the welfare of student community, through its Student Forums.
- IETE Student Forum of SVCE, supported by IETE Chennai Centre has been a body devoted to the enlightenment of studentsthrough various technical events, thereby providing a wholesome learning experience.

ABOUT THE CONFERENCE

NCSPCN - 2024 aims to serve as a forum for experts from industries and institutions to share their knowledge and experience, thereby leading to synergy of technologies in Electronics, Communication Systems, Networks and Signal Processing. The technical programme of the proposed conference NCSPCN-2024 includes two keynote addresses by eminent personalities, Paper Presentation sessions. The broader scope of the conference includes, but not limited to the topics listed below.













- Bio-Medical Signal Processing
- Embedded/ VLSI/ IOT
- Electronic Systems
- Microwave (Antenna/Measurements/EMI/EMC)
- MIMO Systems
- Networking & Communication Engineering
- Ad hoc & Sensor Networks
- Cognitive Radio & Dynamic Spectrum management
- Optical Network Protocols
- Security in Communication & Networking
- Signal, Image Processing & Machine Learning
- Soft Computing

CALL FOR PAPERS

Researchers, Academicians, PG/UG students and personnel from industries are invited to submit their research work for oral presentation, in IEEE format not exceeding six pages, electronically through

Submitted research work must be original and should not have been presented or published anywhere else

REGISTRATION FEE AND DATES TO REMEMBER

Interested participants can fill up the registration form and send it along with the registration fee in the form of Demand Draft drawn in favor of

"THE PRINCIPAL, SRI VENKATESWARA COLLEGE OF ENGINEERING", payable at Sriperumbudur.

Participant Category	Registration fees
1. Paper Presentation	
2. Poster Presentation	Rs.750/-

Submission of full length paper	02.04.2024
Notification of acceptance	05.04.2024
Submission of camera ready paper	10.04.2024

PUBLICATION DETAILS:

- 1. All papers will be peer reviewed and accepted papers will be published in our conference proceedings NCSPCN-24.
- 2. Selected papers will be recommended to UGC care listed journal with authors consent with additional cost.
- 3. Conference Website: https://ncspcn.netlify.app/

CHIEF PATRON

Dr. M. Sivanandham, Secretary, SVEHT

PATRON

Dr. S. Ganesh Vaidyanathan, Principal, SVCE

CONVENORS

Dr.G.A.Sathish Kumar, Professor & HOD, ECE

COORDINATORS

Dr.R.Gayathri, Professor / ECE Ms. S. M. Mehzabeen, AP / ECE Dr.A.Ramya, AP/ECE

ADVISORY COMMITTEE

Dr.N.Kumaratharan, Professor/ECE Dr.P.Jothilakshmi, Professor/ECE Dr.S.R.Malathi, Professor/ECE Dr. T. J. Jeyaprabha Associate Professor/ECE Dr.D.Menaka Associate Professor/ECE Dr.M.Athappan Associate Professor/ECE

Dr.M.Bindhu Associate Professor/ECE

ORGANIZING COMMITTEE

Ms.K S Subhashini, Assistant Professor/ECE S P Sivagnana Subramanian , Assistant Professor/ECE Ms.S Kalyani, Assistant Professor/ECE Ms. R. Kousalya, Assistant Professor/ECE Ms. B. Sarala, Assistant Professor/ECE Mr.P.Arul, Assistant Professor/ECE Mr. N. Sathish , Assistant Professor/ECE Dr.A.Prasanth, Assistant Professor/ECE Dr.M.Kavitha, Assistant Professor/ECE S. Mary Cynthia ,Assistant Professor/ECE Mr.D.Silambarasan, Assistant Professor/ECE Mr.L.K.Balaji Vignesh ,Assistant Professor/ECE

CONTACT

The Coordinators, NCSPCN - 2024, Department of ECE, Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur - 602117 Phone No: 044-27152000, Extn-201, 225 Website: https://www.svce.ac.in E-mail: ncspcn@svce.ac.in Conference Website: https://ncspcn.netlify.app/













SRI VENKATESWARA COLLEGE OF ENGINEERING (SVCE) PENNALUR, SRIPERUMBUDUR-602117











Report on National Conference on Signal Processing, Communication and Networking (NCSPCN-24)

The Department of Electronics and Communication Engineering, Sri Venkateswara College of Engineering organized a One-day Online National Conference on "Signal Processing, Communication and Networking" NCSPCN'24 on April 16th, 2024. The conference was coordinated by Dr.R. Gayathri, Professor, Ms. S M Mehzabeen, Assistant Professor and Dr. A. Ramya, Assistant Professor of the Department of ECE. The organizing team members were Ms. K. S. S. Subhashini, Assistant Professor, Mr. S. P. Sivagnana Subramanian, Assistant Professor, Ms. S. Kalyani, Assistant Professor, Ms. R. Kousalya, Assistant Professor, Ms. B. Sarala, Assistant Professor, Mr. P. Arul, Assistant Professor, Mr. N. Sathish, Assistant Professor, Dr. A. Prasanth, Assistant Professor, Dr. M. Kavitha, Assistant Professor, Ms. S. Mary Cynthia, Assistant Professor, Mr. D. Silambarasan, Assistant Professor, Mr. L. K. Balaji Vignesh, Assistant Professor of the Department of Electronics and Communication Engineering.

Inauguration:

The conference began with a prayer song and welcome address by Dr. G.A. Sathish Kumar, Head of the ECE Department. Dr. R. Gayathri introduced the Chief guest to the audience.





The chief guest, Dr. Priyanka Kokil, Professor at IIIT Kancheepuram, released the conference proceedings and delivered the keynote address on "Role of AI in Healthcare."



There were six parallel technical sessions scheduled covering various tracks:

1. Communication & Networking Track I (Library Seminar Hall)

Chaired by Dr. Srigitha S. Nath and Dr. P. Jothilakshmi

2. Signal Processing Track I (Biotech Hall)

Chaired by Dr. J.S. Leena Jasmine and Dr. D. Menaka

3. Communication & Networking Track II (Microwave Lab)

Chaired by Dr. N. Kumaratharan and Dr. M. Bindhu

4. VLSI, Embedded and IoT Track I (Embedded Lab)

Chaired by Dr. T.J. Jeyaprabha and Dr. Vijayanand

5. VLSI, Embedded and IoT Track II (Communication Lab)

Chaired by Dr. S.R. Malathi and Mr. M. Athappan

6. Signal Processing Track II (Classroom V Block)

Chaired by Dr. A. Prasanth and Dr. M. Kavitha





Valedictory Session: The valedictory session commenced at 1:30 PM with the chief guest introduction by Mrs. S.M. Mehzhabeen. Dr. Jeyalakshmi V, Professor at Anna University, delivered the valedictory address and a keynote on "Significance and Challenges of Artificial Intelligence."





The event concluded with feedback from participants, certificate distribution, and a vote of thanks by Mrs. K.S. Subashini.





Papers published:

S.NO	TITLE	AUTHOR
1.	IOT BASED SMART WHEELCHAIR FOR ENHANCED MOBILITY AND INDEPENDENCE	Dr. Gayathri R, Leann Elizabeth James, Nareesh U D, Narain Muralidharan
2.	ACCURATE BREAST CANCER DETECTION USING ANN AND GMM SEGMENTATION	Shanmathi, Dr. Gayathri R
3.	EARLY CRACK DETECTION OF RAILWAY TRACK	Abu Akash B, Dinesh Adhithya S B, Gokul E Dr. Ramya A
4.	DESIGN AND ANALYSIS OF RECONFIGURABLE MICROSTRIP PATCH ANTENNA FOR MULTIBAND FREQUENCIES	Sudharson S,Suresh M, Vishwanathan, Asokan V
5.	ALZHEIMER DISEASE IDENTIFICATION USING NEURO-IMAGING AND DEEP LEARNING STRATEGIES	Barath Muniswamy, Dhanasri Rangasamy, Hemanth Kumar Udayasekar
6.	DESIGN AND IMPLEMENTATION OF AN IMPROVISED PAGODA STYLE ANTENNA FOR DRONE APPLICATIONS	Carmelito Andrade, Chetan Desai
7.	SMART ENERGY MONITORING FOR EFFICIENT MONETIZATION USING ESP32	Pranav A, Kavinkarthic RB, Naveen Kumar C, M.K Varadarajan

8.	ROBUST PLASTIC DEBRIS DETECTION IN MARITIME ENVIRONMENTS USING CONVOLUTIONAL NEURAL NETWORK (CNN)	Saambavi PU, Lathikaa Shri S, Koushika Devi S, Dr. R. Gayathri
9.	A NOVEL PROSTHETIC HAND CONTROLLER FOR AMPUTEES USING EMG SIGNALS	Dr.M.N.Saravana Kumar, Balamuralikrishna.R, Harriesh Beulah.M, Indirakumar.L, Keerthana
10.	SIMULATION OF FLOWER SHAPED ANTENNA FOR X-BAND APPLICATIONS	Mohanraj, Dr. P. Jothilakshmi, R. Mohana Sundaram
11.	OIL SPILL AND SOLID WASTE COLLECTOR ROBOT	VishnuPriya VT, Sreevatsav E, Srivarshni S
12.	TENDON DRIVEN CONTINUUM ROBOT (TDCR) FOR EXPLORATION AND RESCUE IN DYNAMIC ENVIRONMENTS	Ms S M Mehzabeen, Navin Kumar , Mansoor Bin Fashila, Jishnupriya.M.D
13.	PROACTIVE SECURITY: INTEGRATED SURVEILLANCE AND INTRUSION DETECTION	M. Ragupathi, V. Aishwarya, S. Anbuchelian
4.	ADVANCED STEERING MECHANISM USING ELECTRONIC CONTROL UNIT	Kalaiselvi M R , Preetham S, S Kalyani
15.	AI-ENHANCED EARLY DETECTION OF CYSTIC HYGROMA USING FETAL ULTRASOUND	Mr. K. Prakash, Andrea Jeba Selvi. P, Hari. M, Jeevitha. PM, Tamil SelvamD
16.	BONE CANCER DETECTION: ENHANCING EARLY DIAGNOSIS AND TREATMENT THROUGH ADVANCED COMPUTATIONAL TECHNIQUES	Kavya S K , Mahisha P, NishadharshiniN, Dr.R Gayathri
17.	GYRO AND ACCELEROMETER-BASED HEAD GESTURE DETECTION FOR INTELLIGENT INTERFACES	Avinash P, Ganeshan H, Hemkumar V, N. Kumaratharan
18.	INTEGRATING ARDUINO-BASED SATELLITE SYSTEM FOR REAL-TIME SPACE PARAMETER MONITORING	Srinivasan N, Sriram RM, Srivarshan S, Dr. Siva sakthi Selvan S
9.	PATIENT'S DETAILS AND VITALS USING AUGMENTED REALITY	Raswanth U, Sai Shakthi S, Supraja R
20.	DECRYPTING THEFT SUSPECTS IN LOW-RESOLUTION SNAPSHOTS	Mervin Jerel D, Moneshwar C, Naveenkumar S, Dr. D. Menaka
21.	CARDLESS AND SECURE ATM CASH WITHDRAWAL	Rakshana S, Sahana Balasubramaniam, Sakthi Maheswari M, B.Sarala
22.	ROBUST AUTHENTICATION AND ENCRYPTION PROTOCOL FOR MILITARY APPLICATIONS	Kousalya R, Rajit H, Srivani M, Sanjay Lokesh A M
23.	PREDICTION OF EYE DISEASES BASED ON RETINAL IMAGES RETINASCAN: PROACTIVE EYE HEALTH MONITORING THROUGH	Nivetha DR, Priyadharshini S, Priyadharshni B, Dr. R Gayathri
24.	A NOVEL DIGITAL STETHOSCOPE FOR DIAGNOSIS OF HEART ATTACK	Dr.S.Vishnupriyan, kaviarasi A, Magesh V, Pradeep D, Sivapriya M, Subethra Devika D R
25.	SMART MOUNTAIN CLIMBERS HEALTH MONITORING AND POSITION TRACKING	Dr. Kavitha M, Kabilan S, Santhosh Kumar P

26.	IOT-BASED REAL-TIME CATTLE HEALTH MONITORINGWITH IMMEDIATE FEEDBACK	Rajeshvar M Swamy, Sakthiprasaad I, Sanmugam j
27.	CORN SEED DEFECT DETECTION USING DEEP LEARNING	Dr. L. Bhagyalakshmi, Suryanarayanan V, Thiyaneshwaran MR, Vijayaram B
28.	BRAILLE ENABLED SMART COMMUNICATIONS FOR DEAFBLIND PEOPLE	Prabhu A.E, Keerthi B, Kirthika M
29.	DESIGN OF H-SHAPE MICROSTRIP PATCH ANTENNA FOR THYROID GLAND CANCER	Ms. Shaik Thasleem Banu, Tamil Selvan MR, Tharun GR, Venkatesh N
30.	DESIGN OF MINIATURE SMART PATCH ANTENNA	Vijayakumari, T.Madhumitha, D.Princy , S.Gomathi
31.	DESIGN AND DEVELOPMENT OF A COVERT QUADCOPTER FOR CONFIDENTIAL MEETING SURVEILLANCE	Tamilselvan, Akshaya. V, Chanthini. R, Divakar, Sunil. R
	A SMART PORTABLE BRAILLE SYSTEM FOR TEXT AND VOICE CONVERSION	Tamilselvan, Akshaya. V, Chanthini. R, Divakar, Sunil. R
33.	TRANSMISSION LINE BREAK DETECTION	Danush T, Hariharan G, Harshavardhan R
34.	ANALYSIS OF DETECTING AUTISM SPECTRUM DISORDER USING MACHINE LEARNING TECHNIQUES	Keren F, Thilagavathy M, Lavanya N, Keziah F
35.	AUTOMATED FAULT DISCERNMENT SYSTEM WITH DATA PROVISION VIA CLOUD IN THERMAL POWERHOUSE	Souravigneshwar M R, Vetrivel M, Yazhini S, Gururaj D
36.	ROBUST KEY DERIVATION IN MINING FOR BLOCKCHAIN NETWORK USING CRYPTOGRAPHIC HASH FUNCTIONS AND VOTING BASED ALGORITHM	J. Buvana, Dr.R.Gayathri
37.	LIVER COMPUTED TOMOGRAPHY IMAGE ANALYSIS AND ABNORMALITY CLASSIFICATION IN MACHINE LEARNING	S.Nandhini, R.Gayathri
38.	DESIGN OF HIGH-SPEED MULTIPLICATION AND ACCUMULATION UNIT FOR DSP APPLICATIONS	Silambarasan, L.K.Balaji Vignesh, Aukshay R B, Bala Seshanth R, Akash G
39.	NEURO-BIONIC PROSTHETIC HAND CONTROL USING EEG	Nivetha P, Pooja Varadarajan, Keerthana D, Dr. R. Gayathri
40.	LORA-BASED PADDY FIELD MONITORING SYSTEM FOR REMOTE SENSING OF AGRICULTURAL PARAMETERS	Preetham Raj M B, Muthukumar S, Prasanna A, .Muthukumaran P
41.	DESIGN AND ANALYSIS OF 16-BIT VEDIC MULTIPLIER	Hari Narayanan V, HemanthK V, S. M. Abinaya
42.	A REVIEW FOR AI/ML IMPLEMENTED IN MICRO ELECTRONICS.	Tanaya Kanung Dr.R.Gayathri, S.Manju
43.	EMPOWERING MOBILITY: THE EVOLUTION AND IMPACT OF WHEELCHAIRS IN REHABILITATION	Pushpapriya, Tanaya Kanung, Dr.R.Gayathri, S.Manju
44.	TRAFFIC SIGN DETECTION WITH OCCLUSION USING YOLO 7	Sai Sundar K, Sarveshwar V, Vijay K,
45.	WIRELESS POWER FOR IOT CONNECTIVITY	S.P.Siyaonana Suhramanian L.K.Balaji Vignesh, V.S.Prithivi Raj, R.Shiyaganapathy, P.Vasanth

Feedback:



SRI VENKATESWARA COLLEGE OF ENGINEERING FEEDBACK FROM THE SPEAKER - GUEST LECTURE

DEPARTMENT	: Rectronia & communication Engg
Name of the Speaker	Dr. M. Vanitha
Designation	Professor, papertment of ECE
Institution/University/Organisation	
Mobile / E-mail	
Title of the Lecture	: Acted as a Reviewez For Innovates 2024
Date	16-04-2024
Time	: 10.00 AM to 12:30 PM
Venue	Applied Electronics Lab-IHS second floor.
Comments by the Speaker	;
	l isitative : All Students
have exhibited th	où invovatre ideas into
implementation Th	as will definitely motivate
them to update	themselves with the growing
technology.	
Suggestions for improvement	: Year wise progrescente govern:
Signature of the Speaker	N. Danin Tolylin
Signature of Coordinator	Signature of HOD

Sri Venkateswara College of Engineering

Department of Electronics and Communication Engineering

National Conference on Signal Processing, Communication & Networking NCSPCN

16.04.2024

Conference Feedback Form

We hope that NCSPCN 2024 have been informative and useful for you. We would be grateful if you rould provide feedback to NCSPCN. could provide feedback to NCSPCN team. Your feedback is very important to improve the quality of conference.

Name: L.K. BALAJI VIGNESH

conference Team Id: hcspcn = 52 E-mail: balgingnesh@svce.ac.in Affiliation: AP/ECE/SVCE

Relevant Conference Track (s): Session - >

A. Conference

Your overall opinion about the conference?

Very Good Good Satisfactory Excellent

B. Conference Research Content

How do you rate the included research content of the conference?

Very Good Good Satisfactory

To what extent did the conference increase your knowledge about your relevant track / area of interest?

Moderately Unimportantly Significantly Very Significantly

To what extent has the conference confirmed or changed your perspective about the concepts of your area of interest?

Very Significantly Significantly Moderately Unimportantly

To what extent you expect to use the knowledge obtained through NCSPCN 2024 in your work? Moderately Unimportantly

Significantly Very Significantly

C. Keynote Talks and Panel Discussions & Allied Sessions How would you rate the quality of keynote speakers and their talks?

Very Good Good Satisfactory Excelient

How would you rate the quality of Panel Discussions/Suggestions held during the conference? Good Satisfactory Excellent Very Good D. Conference Organization How would you rate the structure and format of conference sessions (number of speakers/ discussants, length of speeches, time allocated for discussion, representation by sector/ country)? Good Satisfactory Excellent Very Good How would you rate the material provided and their usefulness relevant to the conference? (Conference Bag / Folder, Conference Book, Technical Program, Writing Material etc.) Good Satisfactory Excellent Very Good How would you rate the overall conference management? (Timings, Venues, Food, Conference Team Support, Transport, Accommodation etc.) Good Satisfactory Very Good Excellent E. Comments Mode of conducting Seminar from
reputed organization is very effective to
learn new Innovations to the society
Please feel free to provide any further comments and suggestions that may improve the quality of conference. Thank you for taking the time to fill out this questionnaire. Please kindly return it before the end of the conference to our student management team members. [KBW9791614124


