

**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
**Department of Electronics and Communication Engineering**

**Submitted to the Principal for Approval**

**Through HOD- EC**

**Date: 19-March-2018**

The Department of ECE proposes to conduct a 'National Conference on Signal Processing, Communication and Networking, NCSPCN-2018' at our college on 20-04-2018 (Friday), as part of the research activities. It is planned to have 2 experts from the Indian Institute of Technology, Madras / College of Engineering, Guindy, Anna University for Keynote Address. The Technical Programme includes **Paper Presentation Session, Poster Presentation Session and Project Display Session**. The targeted audience would be UG, PG Students, Research Scholars and Faculty from various Engineering colleges. A budget of Rs.19000/- is estimated. The detailed breakup of expenses is given below.

**BUDGET for National Conference - NCSPCN 2018**

<b>PROJECTED EXPENSES</b>	<b>Rs.</b>
Honorarium for 2 Experts	4000/-
Transport arrangements for 2 Experts	3000/-
Lunch + Tea for 30 participants [college canteen+chips]	3500/-
Snacks for Experts+Water Bottles + Kolam + Flowers etc	1000/-
Kit [Notepad+Pen+Folder] and Certificates	2000/-
Banner NCSPCN	1000/-
Award for Best - Paper Presentation + Poster / Project	2500/-
Memento (2)	1000/-
Miscellaneous Expenses	1000/-
<b>TOTAL PROJECTED EXPENDITURE</b>	<b>19000/-</b>
<b>EXPECTED REVENUE</b>	<b>Rs.</b>
Registration Charges for expected 30 participants (Rs.500/participant)	15000/-
CSI Student Chapter	1000/-
IEEE Student Chapter	1000/-
External Sponsorship	2000/-
<b>TOTAL EXPECTED REVENUE</b>	<b>19000/-</b>

We request you to kindly <sup>approve</sup> accept this proposal for conducting the National Conference (NCSPCN-2018).

We also request you to kindly provide us an advance amount of Rs.10,000/- (Rupees Ten Thousand Only) from the college for starting the preliminary work. The advance amount will be returned back to the college after receiving the registration amount. Any additional revenue generated through the conference will also be returned to the college. Kindly do the needful.

*Dr. S. R. Malathi*  
 19/3/18  
 Dr. S. R. Malathi

Thank you  
 To: HOD-EC/AS  
 Approved  
 21/3

*Dr. S. Muthukumar*  
 19/3/18  
 Dr. S. Muthukumar  
 HOD-EC

**Sri Venkateswara College of Engineering**  
(An Autonomous Institution Affiliated to Anna University, Chennai)



**NATIONAL CONFERENCE on  
SIGNAL PROCESSING, COMMUNICATION & NETWORKING  
(NCSPCN-2018)  
16<sup>th</sup> APRIL, 2018**

### ABOUT THE COLLEGE



Sri Venkateswara College of Engineering (SVCE), a premier self-financing engineering college was started in the year 1985 and is managed by Sri Venkateswara Educational and Health Trust. The college attained autonomous status in 2016. SVCE has 10 under graduate

and 10 post graduate programmes in Engineering and Technology. The college has 11 research centers recognized by the Anna University, Chennai, which cater to MS (by Research) and Ph.D programmes. The courses are approved by AICTE and affiliated to Anna University, Chennai,

The college is accredited by National Assessment and Accreditation Council (NAAC). The college is also certified by IRQS for ISO 9001:2015. The college is situated in serene environment about 37 kms from Chennai and is situated on the way of Chennai – Bangalore National Highway (NH4) at Pennalur, Sriperumbudur, in Kanchipuram district. The campus is Wi-Fi enabled.

### ABOUT THE DEPARTMENT

The Department of ECE was started in the year 1985 and is presently accredited by the NBA. The post graduate program (M.E) in Communication Systems was started in 2002 and Applied Electronics in 2012. There are about 46 faculty members in the department and 9 of them are doctorates. The department is well equipped with lab facilities and software tools like IE3D, ADS, Lab View, Tanner Tools, Cadence, MATLAB, PCB Prototype Machine.

### ABOUT THE CONFERENCE

NCSPCN - 2018 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-2018 includes **two keynote addresses by eminent personalities, Paper Presentation sessions, Poster sessions and Project Display**. The broader scope of the conference includes but not limited to the topics listed below.

- |   |   |
|---|---|
| ◇ Ad hoc & Sensor Networks                      | ◇ MIMO Systems                                |
| ◇ Bio-Medical Signal Processing                 | ◇ Networking & Communication Engineering      |
| ◇ Cognitive Radio & Dynamic Spectrum Management | ◇ Optical Network Protocols                   |
| ◇ DSP Algorithms & Applications                 | ◇ Security in Communication & Networking      |
| ◇ Electronic Systems                            | ◇ Signal, Image Processing & Machine Learning |
| ◇ Microwave (Antenna/Measurements/EMI/EMC)      | ◇ Soft Computing                              |

### CALL FOR PAPERS / POSTERS / PROJECT DISPLAYS

Researchers, academicians, PG/UG students and personnels from industries are invited to submit their research work for **oral presentation** in IEEE double column format not exceeding six pages, electronically through E-Mail or in the form of **posters** as per the given template in the website along with 2 pages abstract or exhibit your **projects** as prototypes / working models etc., along with 2 pages abstract. **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. Oral Presentation 2. Poster Presentation 3. Project Display	<b>Rs.500</b>

Submission of full length paper	<b>06.04.2018</b>
Notification of acceptance	<b>10.04.2018</b>
Submission of camera ready paper	<b>13.04.2018</b>

**Templates** for (1).Oral Presentation/ (2) Poster Presentation (3) Project Display can be downloaded from <https://www.svce.ac.in>

## ACCOMODATION

Accommodation facility would be arranged on request if informed in advance. No TA/DA will be provided.

### Note:

All the accepted and presented papers in the conference will be peer reviewed and considered for publication with a nominal publication charge in **UGC approved journal** "INTERNATIONAL JOURNAL OF ADVANCED RESEARCH TRENDS IN ENGINEERING AND TECHNOLOGY [IJARTET]" [ISSN (Print): 2394-3777, ISSN (Online): 2394-3785] (Recognized and Approved by UGC, Thomson Reuters & Google Scholar Indexed Journal ).

## ADVISORY COMMITTEE

Dr.G.A.Sathish Kumar, Professor/ECE  
Dr.N.Kumaratharan, Professor/ECE  
Dr.H.Umma Habiba, Professor/ECE  
Dr.G.Padmavathi, Professor/ECE  
Dr.P.Jothilakshmi, Professor/ECE  
Dr.S.R.Malathi, Associate Professor/ECE  
Dr.R.Gayathri, Associate Professor/ECE  
Mr.S.R.Balasubramanian, Assistant Professor/ECE

## ORGANIZING COMMITTEE

Ms. R. Kousalya  
Ms. B. Sarala  
Ms. M. Anushya  
Ms. M. Vidya  
Ms. Reethi Srinivasan

## CONVENORS

Dr. S. Ganesh Vaidyanathan, Principal, SVCE  
Dr. S. Muthukumar, Professor & HOD, ECE

## COORDINATORS

Dr. S. R. Malathi, Associate Professor/ECE (9962534922)  
Ms. T. J. Jeyaprabha, AP/ECE (9840742022)  
Ms. S. M. Mehzabeen, AP/ECE (7708382698)

## CONTACT

The Coordinators, NCSPCN - 2018,  
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**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
Sriperumbudur - 602 117

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

*Cordially invites you to the*

**National Conference on  
Signal Processing, Communication & Networking  
NCSPCN-2018**

*Inauguration and key note address by*

**Dr. M. Meenakshi**

**Professor, Department of Electronics and Communication Engineering,  
College of Engineering, Guindy**

**Venue : Function Hall**  
**Date : 16<sup>th</sup> April, 2018**  
**Time : 9.00 a.m to 10.30 a.m**

**.....ALL ARE CORDIALLY INVITED.....**

# SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

National Conference on Signal Processing, Communication and Networking

NCSPCN-2018

PROGRAMME AGENDA : 16 <sup>th</sup> April 2018	
<b>Inauguration</b>	
08.30 - 09.00 a.m	Registration
09.00 - 09.05 a.m	Prayer Song
09.05 - 09.15 a.m	Welcome Address - Dr. S. Muthukumar, HoD-ECE, SVCE
09.15 - 09.25 a.m	Special Address – Dr. S. Ganesh Vaidyanathan, Principal, SVCE
09.25 - 09.30 a.m	Chief Guest Introduction - Dr. S. R. Malathi, Assoc. Prof., ECE, SVCE
09.30 - 09.35 a.m	Conference Proceedings (NCSPCN-2018) release by - Chief Guest
09:35 - 10:30 a.m	Inauguration by Dr. M. Meenakshi, Professor, Anna University, Chennai and Key Note address – <b>'5G Wireless Communication Vision and Challenges'</b>
10.30 - 10.45 a.m	Tea Break
<b>Session – I</b>	
10.45 - 12.00 a.m	Paper Presentation - Signal Processing
12:00 - 12:45 p.m	LUNCH BREAK
<b>Session – II</b>	
1:00 – 2.30 p.m	Paper Presentation - Communication & Networking
<b>Valedictory</b>	
2:30 - 2:45 p.m	Feedback from Participants
2:45 - 3:00 p.m	Valedictory Address and Certificate Distribution
3:00 - 3:05 p.m	Vote of Thanks

## Coordinators

**Dr. S. R. Malathi Ms.**

**T. J. Jeyaprabha**

**Ms. S. M. Mehzabeen**



## **A Report on NCSPCN'18 organized on April 16<sup>th</sup> 2018 by the Department of ECE**

Department of ECE organized, a One Day National Conference on “Signal Processing, Communication and Networking” NCSPCN'18 on April 16<sup>th</sup> 2018.

The conference was coordinated by Dr.S.R.Malathi, Associate Professor, Ms.T.J.Jeyaprabha and Ms.S.M.Mehzabeen Assistant Professors. The organizing team members were Ms.R.Kousalya, Ms.B.Sarala, Ms.M.Vidya, Ms.M.Anushya and Ms.S.Reethi, Assistant Professors, of the Department of ECE.

After the prayer song, the welcome address and the conference theme address were given by Dr.S.Muthukumar, Head of the Department of Electronics and Communication Engineering. The Chief Guest was introduced by Dr.S.R.Malathi. The Conference was formally inaugurated with lightening of Kuthu-Vilakku by the honourable chief guest Dr.M.Meenakshi, Professor, Department of Electronics and Communication, College of Engineering, Guindy. The chief guest also released the NCSPCN-2018 Conference proceeding booklet and CDs.

The chief guest Dr.M.Meenakshi gave the Keynote address on the topic, '**5G Wireless Communication – Vision and Challenges**' in which she elaborated on 5G Technology, its advancements and the various research issues to be addressed in this technology.

The inaugural address was followed by paper presentation sessions, which was conducted in three sessions. Session-I was in the field of 'Signal Processing' and was chaired by Dr.G.A.Sathish Kumar, Professor and Dr.N.Kumaratharan and Professor, Department of ECE. Session-II and Session-III were on the field of 'Communication & Networking'. Session-II was chaired by Dr.G.Padmavathi, Professor and Dr.P.Jothilakshmi, Professor, Department of ECE. Session-III was chaired by Dr.R.Gayathri, Associate Professor and Mr.S.R.Balasubramanian, Assistant Professor, Department of ECE.

Dr.S.Muthukumar, HOD-EC, gave the Valedictory Address and distributed the certificates to the participants.

The conference was concluded with the Vote of Thanks by Ms.R.Kousalya, Assistant Professor, Department of ECE. On behalf of the Department of ECE, the coordinators expressed their gratefulness to all student volunteers from PG-CS, PG-AE, UG and supporting faculty, the sponsors - SVCE-CSI and SVCE-IEEE Students Chapter and all the enthusiastic participants who came from various colleges.

A total of twenty eight papers of good quality were selected by the review committee based on the originality and novelty relevant to the latest research topics and the real world applications. Twenty three papers were presented in the conference. All the presented papers in the conference were selected for publication in the UGC Approved Journal - International Journal on Advanced Research Trends in Engineering and Technology (IJARTET).

The event was successfully completed with National Anthem.


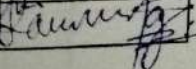


The event was successfully completed with National Anthem.

*T. J. S. S. S.*

Coordinators

*D. S. S. S.*  
 Head of the Department  
 Electronics and Communication Engineering  
 Sri Venkateswara College of Engineering  
 Sriperumbudur - 602 117, India

Team No.	College Name / Industry	Title of the Paper	Authors	email-id	Mobile No.	Signature
1	Meenakshi College of Engineering	Vehicle Speed Detection and Monitoring in Poor Weather Conditions using Python in Image Processing	G.Arthi	arthigovindang@gmail.com		
			K.Keerthana			
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			R. Anandha Praba			
2	Meenakshi College of Engineering	High Speed FIR Filters using Parallel LFSR Architecture for the Real Time Application of Signal Processing	K.Pavithra			
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			T.V.Praveena			
			R.Anandha Praba			
			D.Satheeswari			
Dr.D.Joseph Jeyakumar						
3	Meenakshi College of Engineering	A Multi User Resource Allocation of Spectrum Sensing Algorithm using Cognitive Radio Applications	Needhu Srinivasan	needhusri@gmail.com		
			A.Priyanka			
			R.Subha Shree			
			R.Anandha Praba			
D.Satheeswari						
4	SRM University	Development of Greenhouse Autonomous Control System for Home Agriculture Project	Kulbhushan Pandey	kulbushanp@gmail.com	9608745128	
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N. MAHESHKUMAR (FACULTY)



Team No.	College Name / Industry	Title of the Paper	Authors	email-id	Mobile No.	Signature
5	SRM Institute of Science and Technology, Chennai	Intelligent Wearable Device for Coal Miners	P.Prabhu			
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			ChPhanindra Kumar			
6	SRM Institute of Science and Technology	Person Counter and Temperature Monitoring <i>70 out of 8 completed</i>	K.Lalitha(ME) ✓	Faculty		
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7	Jeppiaar Engineering College	AGRIBOT – Implementation of Robot in the Field of Agriculture	Mrs.JeyalakshmiDevi.V.			
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			Surya.V			
8	SRM Institute of Science and Technology	Stock Market Analysis using Neural Network	SENTHIL KUMAR			
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Team No.	College Name / Industry	Title of the Paper	Authors	email-id	Mobile No.	Signature
9	Prathyusha Engineering College	Voice recognition Robot using HC-05	Harshini P	harshinisetkani2198@gmail.com	8610505482	Harsini P
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10	SRM University, Ramapuram	An IBEACON based Smart Child Monitoring System	Mr.A.AJIN ROCH	ajinroch.a@rmp.srmuniv.ac.in	✓	
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11	Prathyusha Engineering College	Control of Home Appliances through Voice Commands	Hemapriya Nandhinee S	hemapriyanandhinee@gmail.com	860868859	S. Hema
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			Priya M (Faculty)			
12	Prathyusha Engineering College	Design of Monopole Patch Antenna for Wi- MAX, WLAN, ISM and C-Band Applications using Strip Line Feeding	N.Darwin M.E (Faculty)			
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13	Prathyusha Engineering College	Identification of Human Emotions using ECG Signals	Harini Sri S	harinisri.sridhar@gmail.com	9780080770	Harini Sri S
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			Dhanya D M			
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Team No.	College Name / Industry	Title of the Paper	Authors	email-id	Mobile No.	Signature
1	SVCE	Real Time Monitoring and Contamination Detection in Drinking Water Distribution	BHARATHIPRIYA A	abharadhi@gmail.com	7397403533	<i>Bharathi</i>
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2	SVCE	Implementation of Intelligent Traffic Light Scheduling Algorithm through Object Detection	S.M. Mehzabeen		8939056709	<i>S.M. Mehzabeen</i>
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3	SVCE	Wireless Domotics using IoT	Belinda Smith. V			
			Bharathi. S			
			Janani Ganesh	jananiganesh1010@gmail.com		
4	SVCE	Tracking and Predicting Student Performance in Graduation Program using Time Series Forecasting	Supraja S	suprajasr17@gmail.com		
			Poorani S	spoorani@svce.ac.in		
5	SVCE	IoT based Remote Plethysmographic Imaging with Thermal Reading	Dr.S. Muthu Kumar		9840082118	<i>S. Lavanya</i>
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			G.K. Muthu Reshmaa	muthureshmaa@gmail.com		
6	SVCE	Self Adaptive Robots in Harmful Conditions and its Visibility of Self Shedding	B. Nandha Kumar	nandhakumar_bk@gmail.com		
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			A.KUMARASWAMY			

*Accidental  
Self*

Team No.	College Name / Industry	Title of the Paper	Authors	email-id	Mobile No.	Signature
7	SVCE	Human Computer Interface Using Head Movements and Eye Blinks	Harika.K	harikakarika96@gmail.com	8754905390	<i>Harika</i>
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8	SVCE	Smart Irrigation using Sensor Netw -ORR  SUBHASHINI KS Win & doc	Satyanarayan.R	1996satya@gmail.com	9789924892	<i>Satyanarayan</i>
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9	SVCE	Design of Fast Dadda multiplier usi	Shanmathi B	b.shanmathi1994@gmail.com		
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10	SVCE	Electronic Toll Implementation with an Application Development	E.Roshith	roshi.567@gmail.com	8954477741	<i>Roshith</i>
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11	SVCE	Automatic Vision System of a Bead Checker Machine Implemented using PLC	Ashika Chockalingam	ashika07chockalingam@gmail.com	9884088192	<i>Ashika</i>
			Indhuja Vinayagam			
			Mrs. M.Arushya			
12	SVCE	Human Gesture Recognition for IOT based Applications	P.Subha	subhapaulson@gmail.com		
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13 SVCE

Interface between Brain & Computer for Communication & Motor Control

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