



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Academic Year 2021 - 2022 / EVEN SEMESTER

NATIONAL CONFERENCE ON COMMUNICATION, NETWORKING AND INTELLIGENCE-
NCCNI'22 - REPORT

The Department of Electronics and Communication Engineering organized a National Conference on Communication, Networking and Intelligence – NCCNI'22 on **10th June 2022**.

OBJECTIVE OF THE CONFERENCE

- The conference focuses on current research topics related to Communication, Networking and Intelligence.
- It would act as an innovative forum to share and exchange the innovative research ideas related to advanced inventive communication and Intelligence for Students, Professors, Researchers and Innovators.

Conference Topics:

1. Digital Communication
2. Communication System Design
3. Artificial Intelligence and Robotics
4. Neural Networks
5. Antenna System and Design
6. RF and Microwave Communications
7. Wireless Communication
8. Cognitive Radio and Networks
9. Mobile Adhoc and Wireless Sensor Networks
10. Optical Networks and Systems
11. Embedded System Design
12. Digital System Design
13. VLSI Design
14. Soft Computing Techniques and application

National Conference on Communication, Networking and Intelligence (NCCNI'22) was organized on 10th June, 2022. **Dr. Joe Louis Paul**, Assistant Professor, SSN College of Engineering, Chennai was the chief guest. Mrs.N.Mangaiyarkarasi, Head of the Department, Department of Electronics and Communication Engineering delivered the welcome address and briefed on the recent trends and usage of Communication, Networking and Intelligence in various areas of applications.

Mr.T.Pasupathi, AP/ECE organizing secretary introduced the Chief Guest. The Chief Guest released the conference proceedings. **Dr. Joe Louis Paul** delivered the inaugural address on **Living and Computing on the Edge – An Overview of Federated Learning**. During his talk, he shared information about the challenges and advancements related to engineering fields, which will create an opportunity to focus on specific areas from their own perspective and experiences in this field.

He explained the concept of Federated Learning which is a machine learning approach that trains models collaboratively and aims to prevent data leakage by using differential privacy and decentralized data. Federated Learning also allows an individual's data to remain anonymous while helping build powerful models Also he explained about the recent trends, growth, future scope, ongoing projects and research in the field of Engineering. At the end of inaugural function, he thanked the management, Secretary, Principal, Vice Principal, Chief Guest, HOD, staff members and participants.

The technical session started at 11.30 am in both online and offline mode. Mr.T.Jayaseelan, AP/ECE, Mr.P.Rajapirian, AP/ECE acted as a Jury for the presentation. The evaluation was based on the presentation, concept and implementation and the answers given to the queries. After the technical session, the participants shared their feedback about the conference. Certificates were distributed to the participants.

CONFERENCE COORDINATORS
Mr.T.Pasupathi

HOD/ECE

PRINCIPAL

CONFERENCE POSTER



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Punalhayan, Gandarvakkottai (tk), Near Thanjavur, Pudukkottai - 613003

**National Conference
on
Communication,
Networking &
Intelligence
(NCCNI'22)**

10-06-2022
Jointly organised by
**Department of
Electronics & Communication
Engineering
and**



Madras Section
STB 16621

Advisory Committee
Dr. S. Raghavan, HAG, NIT, Trichy
Dr. N. Sivakumaran, NIT, Trichy
Dr. P. Muthuchidambaramanathan, NIT, Trichy
Dr. A. Sivanandharaja, ACCET, Karaikudi
Dr. S. Krishnakumar, DRDO, Chennai
Dr. S. Suganthi, Christ University, Bangalore
Dr. D. Jayanthi, GRIET, Hyderabad
Dr. D. Kumar, PMIST, Thanjavur

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Dr. M. Aramudhan, PKIET, Karaikal
Dr. T. Jayasankar, AUBIT, Trichy
Dr. V. Sakthivel, NIT, Calicut
Dr. R. Vimalathithan, KCE, Coimbatore
Dr. C. Vemila, SCE, Trichy
Dr. S. Albert Alexander, KEC, Perundurai
Dr. J. Baskaran, KEC, Kuppam
Dr. M. Malathy, Veltech Hightech EC, Chennai
Dr. Robinson, MZCET, Pudukkottai

Organizing Committee
Chief Patron
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Shri. T.R.S. Muthukumaar, CEO, KCE

Patron
Dr. J. Arputha Vijaya Selvi, Principal, KCE

Co-Patron
Dr. S. Sivakumar, Vice Principal, KCE

Conference Chair
Mrs. N. Mangaiyarkarasi, HOD/ECE, KCE

Organizing Secretaries
Mr. T. Pasupathi, AP/ECE, KCE
Mr. S. Sivakumar, AP/ECE, KCE

Conference Topics: (but not limited to)
1. Digital Communication
2. Ad Hoc / Sensor Networks
3. Artificial Intelligence and Robotics
4. Neural Networks
5. Biomedical Imaging
6. RF/ Microwave / Antenna Design
7. Low Power VLSI/VLSI Testing
8. Cognitive Radio and Networks
9. Mobile Adhoc and Wireless Sensor Networks
10. Optical Networks and Systems
11. Embedded System Design
12. Soft Computing Techniques and application
13. Mobile/ Satellite Communications

For Further Information Contact:
The Coordinator - NCCNI'22
Department of ECE,
Kings College of Engineering
Punalkulam, Gandarvakkotai (tk)
Pudukkottai District

Phone 98941 04645, 75503 58645
Email ncec22@gmail.com
Location Thanjavur - Pudukkottai Highway
Website www.kingsengg.edu.in



About the College

Kings College of Engineering (KCE) is an institution which was formed with the single aim of providing quality education to the poor and under-privileged students of this region. KCE was established in the year 2001 and run by Raj Educational Trust (RET). KCE is approved by All India Council of Technical Education, New Delhi (AICTE) and is affiliated to Anna University, Chennai. Our institution offers 5 U.G Programmes and 4 P.G Programmes. The college maintains high standard of education by providing a wide array of world class academic facilities, employing highly qualified and experienced faculty members and creating an ambience conducive of quality education.

About the Department

The Department of Electronics and Communication Engineering was established with state of art laboratories in the year 2001. It is continuously upgrading the infrastructure and laboratory facilities with the emerging technology as per the industrial needs. The Department of Electronics and Communication Engineering is recognized as research center for collaborative research by Anna University, Chennai. A significant number of research projects funded by government and non-government organizations viz. DRDO, MCIT, AICTE New Delhi, TNSCST, Chennai and Texas Instruments USA have been successfully carried out.

About the Conference

This Conference offers a forum for the exchange of scientific and technical Innovative concepts and new ideas in the areas of Communication, Networking and Intelligence. Also it promotes an affable environment facilitating academicians, industry experts and scholars to exchange their research ideas for collaborative work. Original research papers are invited.



Important Dates:

Submission of Full paper : 03-06-22
Date of Acceptance : 06-06-22
Last date of Registration. : 08-06-22

Registration Fee :

UG/PG Students : Rs. 500/-
Faculty members /
Research scholars : Rs. 750/-

Author Guidelines:

Authors are requested to submit original and unpublished camera ready paper in IEEE format not exceeding 6 pages to ncec22@kingsengg.edu.in. All selected papers will be included in the proceedings of the conference with ISBN.

Registration Form

Name :
Degree :
Department :
Institution :
Institution Address :

email ID :
Mobile Number :
Registration Fee :
Payment Details :

Signature of the Candidate

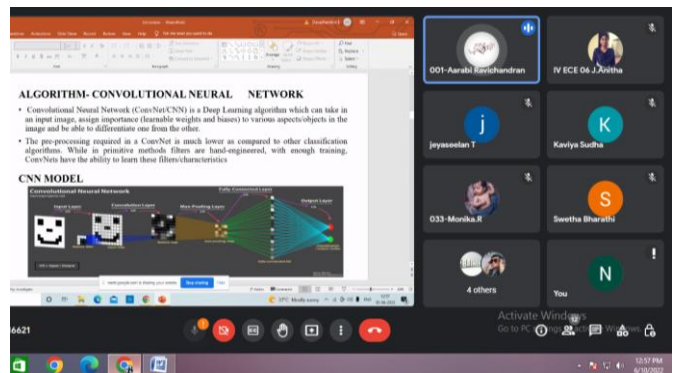
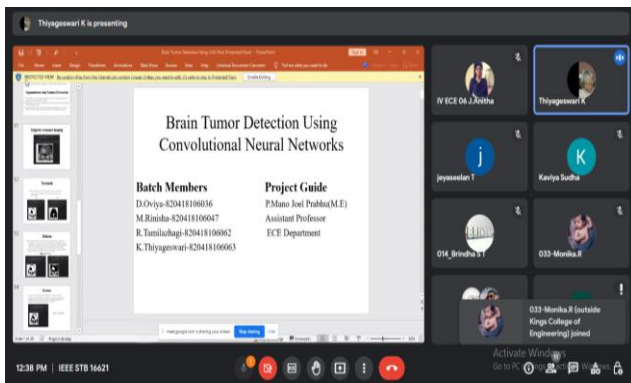
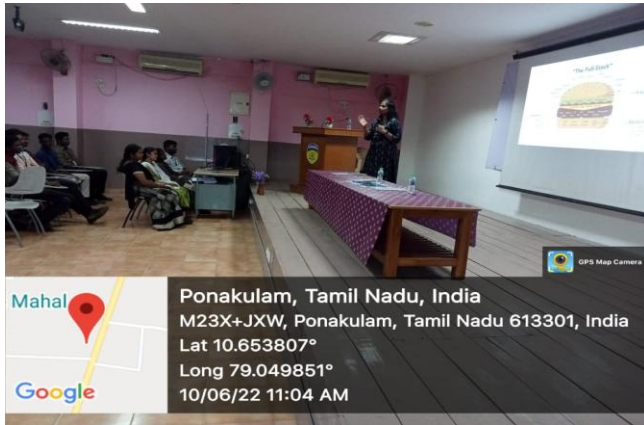
Declaration

Mr./Ms./ Dr.
of
our institution is sponsored for the
programme

Signature of HOD/Principal

ANNEXURE - III

GLIMPSES OF THE EVENT



Students' presentation in online/offline mode



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Department of Electronics and Communication Engineering
National Conference on Communication, Networking and Intelligence (NCCNI-2022)
Registered Papers

Session:01

Date: 10.06.2022

Mode: Online

S.No	Name of the Participant(s)	Name of the College	Title of the Paper:	Time	Presentation Link
1.	D.Rahul , R.Rajesh Kannan , J.Mohamed Shahil , A.Ajmaludeen	Anjalai Ammal Mahalingam Engineering College, Kovilvenni	Simulation And Modeling of The Electric Vehicle	11.00 a.m- 11.12 a.m	https://meet.google.com/vjr-miyf-zws
2.	S.Surya,R.Rajasakthivelan,S. Vijay,P.Rajeshkumar	Anjaliammall Mahalingam Engineering College Kovilvenni,Thiruvar ur	IOT based smart grid integrated solar power system	11.13 a.m- 11.25 a.m	
3.	Karthikeyan.M ,Guruvenkatesh.N, Aravind.P , Prasanna.K	Anjalai Ammal Mahalingam Engineering College, Kovilvenni	A Novel SSIN Based Boost Converter For Low Voltage DC Source Integration	11.26 a.m- 11.42 a.m	
4.	S.R.Yogamalini, Rasi.A.Prakashika	Parisutham Institute of Technology And Science, Thanjavur	IOT based temperature monitoring system for pharmaceutical company	11.43 a.m- 11.57 a.m	
5.	Aarabi Ravichandran, Brindha. S. T, Devadharshini. E, Bhavanisha. S	Anjalai Ammal Mahalingam Engineering College- Kovilvenni	Incidence of fatal pedestrian collision avoidance and vechile speed control	11.58 a.m- 12.12 p.m	
6.	Rinisha.M, Thiyageswari.K Oviya .D, Tamilazhagi .R	Anjalai Ammal Mahalingam Engineering College, Kovilvenni Thiruvarur	Brain tumor detection using CNN	12.12 p.m- 12.26 p.m	
7.	R. Balasubramaniyan, B. Sakthivel, K. Ragul, V. Balamurugan	Anjalai Ammal Mahalingam Engineering College, Kovilvenii	RadiologistAPI for Respiratory Disease Classification and Grade Prediction using Deep Learning Model	12.27 p.m- 12.41 p.m	
8.	N.Farhana Sirin, K.Iswarya, R.Monika, A.Lavanya	Anjalai Ammal Mahalingam Engineering College, Kovilvenii	Heart failure prognosis using Support vector machine	12.42- 12.54p.m	



Department of Electronics and Communication Engineering
National Conference on Communication, Networking and Intelligence (NCCNI-2022)
Registered Papers

Session:02

Date: 10.06.2022

Mode: Online

S.No	Name of the Participant(s)	Name of the College	Title of the Paper:	Time	Presentation Link
1.	A.Shahira, P.Sivaranjani, M.R.Saraswathi	Anjalai Ammal Mahalingam Engineering, Kovilvenni,	Detection of Aluminium Scraps using Image Processing for Production of H2	11.00 a.m- 11.12 a.m	
2.	Jayabharathi. S, Harivardhini. S, Shakithiya.K, Familiarufi. S	Anjalai Ammal Mahalingam Engineering College, Kovilvenni. Thiruvarur.	Crop recommendation system using Machine learning	11.13 a.m- 11.25 a.m	
3.	Mahalakshmi.R,Mathu mitha.A	Parisutham Institute of Technology And Science, Thanjavur	Nanobots	11.26 a.m- 11.42 a.m	
4.	Solangkili.K , Reethiga.V.E, Shaheen Begum.A ,Ilakkiya.N ,Jaya.S	Arasu Engineering College,Kumbakonam	Bot for health care and diagnosis	11.43 a.m- 11.57 a.m	
5.	P.L Ambiga , S.Asmitha	Parisutham Institute Of Technology And Science, Thanjavur	Lifi technology	11.58 a.m- 12.12 p.m	https://meet.google.com/rcv-ewtn-jdo
6.	R. Raaghul, K. Swedha Bharathi R. Hinduja	Analysis of transient and Voltage stability enhancement	Parisutham Institute Of Technology And Science, Thanjavur	12.13-12.27 p.m	https://meet.google.com/rcv-ewtn-jdo

INVITATION



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National Conference on Communication, Networking and Intelligence

Organized by

Department of Electronics and Communication Engineering



Dr. I. Joe Louis Paul

Associate Professor

Department of Information Technology
SSN College of Engineering
Chennai



10.06.2022 Friday

09:45 a.m. - 10:30 a.m.

ECE Smart Classroom

Organizing Secretaries

Mr.T. Pasupathi, AP/ECE Mr. S. Sivakumar, AP/ECE

Conference Chair

Mrs. N. Mangaiyarkarasi
HOD/ECE

Patron

Dr. J. Arputha Vijaya Selvi
Principal

All are Invited

ANNEXURE - V

AGENDA



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**National Conference on Communication, Networking and Intelligence
(NCCNI'22)**

AGENDA

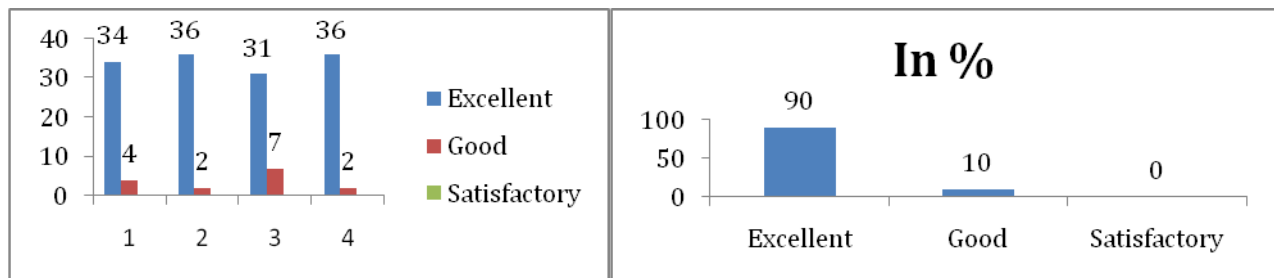
Date: 10.06.2022

Venue: Virtual Mode

10.00 – 10.10	Welcome Address	<i>Mrs.N.Mangaiyarkarasi</i> HoD, KCE.
10.11 – 10.16	Presidential Address	<i>Dr.J.Arputha Vijaya Selvi</i> Principal, KCE.
10.21 – 10.23	Introduction to Chief Guest	<i>Mr.T.Pasupathi</i> Asst.Prof/ECE, KCE.
10.24 – 11.10	Key note speaker	<i>Dr.I.Joe Louis Paul</i> , Associate Professor Department of Information Technology SSN College of Engineering Chennai, Tamil Nadu.
11.11 – 11.15	Vote of Thanks	<i>Mr.S.Sivakumar</i> Asst.Prof, KCE.
11.20 – 01.00	Session – starts	Participants

FEEDBACK ANALYSIS

Q.NO	Excellent	Good	Satisfactory
1	34	04	0
2	36	02	0
3	31	07	0
4	36	02	0
Total	137	15	0
In %	90	10	0



Overall Analysis

Resource Person-Profile



Dr. I. Joe Louis Paul
B.E., M.E., Ph.D.
Associate Professor

[Email: joelouisi@ssn.edu.in](mailto:joelouisi@ssn.edu.in)

I. Joe Louis Paul has more than 21 years of teaching experience and 13 years of research experience. He received his B.E (EEE) degree with a first class from Karunya Institute of Technology, Coimbatore, Bharathiar University, M.E. (CSE) degree with a first class with distinction from Mepco Schlenk Engineering College, Sivakasi, Madurai Kamaraj University and Ph.D. degree from Anna University Chennai in the area of error control coding.

He started his career as a lecturer in the Department of EEE, Alagappa Chettiar Government College of Engineering and Technology, Karaikudi in the year 1998. After earning his masters, he joined as a lecturer in the Department of IT, Mepco Schlenk Engineering College, Sivakasi in the year 2002. Then, he joined SSN College of Engineering in the year 2005 and he is currently working as an Associate Professor in the Department of IT.

He has taught the courses like Computer Architecture, Wireless Communication, Mobile Computing, Mobile Communication, Principles of Compiler Design, Information Theory and Coding, Operating Systems, Information Coding Techniques, Visual Programming, etc.,

His current research areas of interest include Error Control Coding, Wireless Communication and Internet of Things (IoT). He has guided about 63 UG projects and 14 PG projects so far

Received 3 best paper awards for his research papers presented in IEEE sponsored International conferences.

Received best poster award in International Conference organized by Department of IST, College of Engineering, Guindy, Anna University, Chennai.

Received best project award in the International Conference organized by Department of CSE, SSN College of Engineering, Chennai.

Journal Publications: 08

Conference Publications: 15