



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Academic Year 2020 - 2021 / EVEN SEMESTER

**NATIONAL CONFERENCE ON RECENT TRENDS IN COMPUTING & COMMUNICATION
TECHNOLOGIES FOR SMART ENVIRONMENT – NCRTCCTSE'21 REPORT**

The Department of Computer Science & Engineering organized a National Conference on Recent Trends in Computing & Communication Technologies for Smart Environment **on 13th March 2021**. Due to Covid-19 pandemic situation, the conference was conducted in online mode.

OBJECTIVE OF THE CONFERENCE

The objective of the conference was to provide a platform for researchers and academicians to share and exchange ideas on various research topics in the fields such as Data Science, Internet of Things and Machine Learning.

THEME OF THE CONFERENCE

The development of technology grows exponentially fast in this era, especially with computing and communication technologies. The recent trends in fifth generation communication system encourage new technical insights for Information Technology industry to derive the transition towards next - generation. The advent of computing technology leads to provide smart environment to all. Smart environment has the ability to permit the users to avail and interact with the things surrounding them easily. Many researches today mainly focus on the deployment of sensors, materials used for making the sensors, communication between sensors and how to achieve the data security for the sensed data and transmission. Data Analytics, Social Isolation, Cyber security, Privacy aspects are important to build a smart environment. NCRTCCTSE'21 provided a platform to address research challenges in developing a smart environment and discussed about recent technologies available to overcome the challenges.

PREWORK OF THE CONFERENCE

Dr.S.M.Uma HOD / CSE assigned Ms.S.Puvaneswari and Mr.M.Arun AP/CSE as conference coordinator. They have got the approval from Principal and Secretary to organize the conference in online mode. After getting the approval, list of works identified and committee list and their responsibilities were prepared and circulated to staff members. To seek the fund from an external agency, a proposal had been submitted to UGC. Poster was designed and got approval from the HOD and the Principal. After getting the approval, poster and registration form (google form) were circulated to various engineering colleges through Whatsapp and mail.

We have received 34 papers from various engineering colleges in various domains. The papers were sent to the technical committee of our department and the originality of the paper was verified. 23 papers were scrutinized and intimated to the authors through mail. The authors were requested to submit camera ready copy of a paper to prepare the proceedings. The proceeding works were carried out by Mr.S.Rajarajan AP/CSE.

We had sent requisition mail to Ms.D.Cenitta AP/CSE, Manipal Institute of Technology, Karnataka to deliver keynote address on our conference. She readily accepted our invitation and acknowledged to deliver keynote address on “Machine Learning Techniques”. She has the 15 years of teaching experience and guided many UG & PG projects in this domain.

ON THE DAY OF CONFERENCE (13.03.2021)

The conference was conducted through online mode. Conference Coordinators, Convener, Vice Principal, Chief Guest and staff members were joined through google meet link (<http://meet.google.com/fbe-chnu-fdd>). The inaugural function was streamed through our college Youtube channel (Kings College Of Engineering).

The inaugural function was started at 10.15 am. Ms.R.Suganthalakshmi AP/CSE welcomed the gathering. She invited Dr.S.M.Uma HOD/CSE to deliver welcome address. Dr.S.M.Uma HOD / CSE welcomed the Principal, Secretary, Vice Principal, Chief Guest , Staff members and participants from various engineering colleges. Ms.S.Puvaneswari AP /CSE, Conference coordinator described the objective of the conference. Dr.S.Sivakumar Vice Principal has given the felicitation address and also insisted the participants to make this conference effectively.

Mr.M.Arun AP/CSE, Conference Coordinator introduced the Chief Guest to audience. Mrs.D.Cenitta AP/CSE, MIT, Karnataka delivered the Keynote address in the topic of “Machine Learning Techniques”. She illustrated the difference between Artificial Intelligence, Machine Learning and Deep Learning. She explained that how these techniques influenced the Data Science domain. She described how Deep Learning is used in auto mobile industries like Tesla, United States. She insisted the significance of computer vision in building a smart environment. She illustrated the process of handling medical data in data analytical domain. She concluded her keynote address by listing various types of software that supports smart environment.

At the end of inaugural function, Mr.M.Arun AP/CSE, Conference Coordinator thanked the management, Secretary, Principal, Vice Principal, Chief Guest, HOD, staff members and participants.

The technical session was started at 11.30 am. The schedule was circulated to the participants through mail. Dr.S.M.Uma, Dr.D.Sivakumar, Mr.S.Rajarajan, Ms.R.Suganthalakshmi and Ms.G.Chandra priya were act as a Jury. The participants were joined their corresponding jury member’s google meet link. The Jury members had the evaluation sheet which contains the paper id, team members, paper title, college name and the evaluation criteria. The evaluation based on the presentation, concept and implementation and the answers given to the queries. Each team had 20 minutes (presentation – 15 minutes & query – 5 minutes) to present their papers. After the session, the evaluation sheet was collected from the juries.

POSTWORK OF THE CONFERENCE

The participants were asked to submit the feedback about conference. Certificates were distributed to the participants based on their active participation in the conference. Certificates and proceedings were sent through mail to the participants.

CONFERENCE COORDINATOR

HOD/CSE

PRINCIPAL

(Mr.S.Puvaneswari & Mr.M.Arun)

ANNEXURE – I

CONFERENCE POSTER

Chief Patrons
Dr.R.Rajendran, Ph.D
Secretary
Mr.T.R.S.Muthukumar, M.B.A
C.E.O

Patron
Dr.J.Arputha Vijaya Selvi, Ph.D
Principal

Co-Patron
Dr.S.Sivakumar, Ph.D
Vice Principal

Conference Chair
Dr.S.M.Uma, Ph.D
HOD-CSE

Organizing Secretaries
Ms.S.Puvaneswari, M.E
AP/CSE
Mr.M.Arun, M.E
AP/CSE

Address for communication
The organizing secretary,
NCRTCCTSE'21,
Department of Computer Science & Engg,
Punalkulam, Gandarvakottai Taluk,
Pudukkottai, Dt. – 613303,
Tamil Nadu, India.
Email:csencon21@gmail.com
Cell: (+91) 8110012246,
(+91)9943896178.

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Call for Papers
Topics Not limited to...
✓ Artificial Intelligence
✓ Data Science
✓ Data Analytics
✓ Machine Learning
✓ Deep Learning
✓ Internet of Things
✓ Cyber Security

Important Dates

Last Date for Paper Submission	26.02.2021
Last Date for Confirmation	03.03.2021
Last Date for Registration	08.03.2021

Paper Submission
Authors are invited to submit full paper of minimum 6 pages and maximum 10 pages, strictly as per the IEEE format (using two column, single spaced format with 10 pt) to csencon21@gmail.com.
The paper should include affiliation and email address along with author biography.

Registration Fee

S.No	Categories	Fee(Rs.)
1.	Under Graduate (UG)	-
2.	Post Graduate (PG)	-
3.	Research scholars and Industry persons.	1000



KINGS COLLEGE OF ENGINEERING
Approved by AICTE & Affiliated to Anna University
NAAC Accredited & ISO Certified Institution
Recognized Under 2(f) & 12 (B) of UGC
Near Thanjavur, Punalkulam,
Pudukkottai Dt. – 613303, Tamil Nadu.



National Conference
on
**Recent Trends in Computing & Communication
Technologies for Smart Environment
(NCRTCCTSE'21)**
Date: 13.03.2021



Organized by
Department of Computer Science and Engineering
In association with **IEEE Student Branch**
Punalkulam, Gandarvakottai Taluk,
Pudukkottai Dt. – 613303, Tamil Nadu, India, www.kingsindia.net

ANNEXURE – II

REGISTRATION FORM

13092021 Registration Form - NCRTCCTSE'21

Registration Form - NCRTCCTSE'21

* Required

1. Email address *

<p>Chief Patron Dr. R. Rajendran, Ph.D Secretary Ms. T.R.S. Mathakumar, MBA C.E.O</p> <p>Patron Dr. J. Arpantha Vijaya Sekh, Ph.D Principal</p> <p>Co-Patrons Dr. S. Shrivastava, Ph.D Vice Principal</p> <p>Conference Chair Dr. S.M. Iyengar, Ph.D JWD-CSI</p> <p>Organizing Secretaries Ms. S. Parvatheswari, M.T. APJCC Mr. M. Arun, M.E. APJCC</p> <p>Address for correspondence The organizing secretary, NCRTCCTSE'21, Department of Computer Science & Engg, Pondicherry Engineering College, Puducherry, Tamil Nadu, India. Email: ncrtcctse21@pearlson.com Cell: (+91) 91 1007 2214, (+91) 999 3856278.</p>	V I R T U A L C O N F E R E N C E	<p>Call for Papers</p> <p>Papers Not Included in—</p> <ul style="list-style-type: none"> ✓ Artificial Intelligence ✓ Data Science ✓ Data Analytics ✓ Machine Learning ✓ Deep Learning ✓ Internet of Things ✓ Cyber Security <p>Important Dates</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Last Date for Paper Submissions</td> <td>26.02.2021</td> </tr> <tr> <td>Last Date for Confirmation</td> <td>03.03.2021</td> </tr> <tr> <td>Last Date for Registration</td> <td>08.03.2021</td> </tr> </table> <p>Paper Submission</p> <p>Authors are invited to submit full paper of minimum 6 pages and maximum 10 pages, strictly as per the IEEE format (using two columns, single spaced format with 10 pt) to ncrtcctse21@pearlson.com.</p> <p>The paper should include affiliation and email address along with author biography.</p> <p>Registration Fee</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sl.No</th> <th>Categorization</th> <th>Fee(₹)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Under Graduate (UG)</td> <td>—</td> </tr> <tr> <td>2.</td> <td>Post Graduate (PG)</td> <td>—</td> </tr> <tr> <td>3.</td> <td>Research scholars and industry persons.</td> <td>1000</td> </tr> </tbody> </table>	Last Date for Paper Submissions	26.02.2021	Last Date for Confirmation	03.03.2021	Last Date for Registration	08.03.2021	Sl.No	Categorization	Fee(₹)	1.	Under Graduate (UG)	—	2.	Post Graduate (PG)	—	3.	Research scholars and industry persons.	1000	<div style="text-align: center;">  KINGS COLLEGE OF ENGINEERING <small>Approved by AICTE, A.MBA Accredited University (AACSB Accredited & ISO Certified Institute) Recognized Under 2F & 12(B) of UGC, Near Thanjavur, Pondicherry, Puducherry Dt. – 605003, Tamil Nadu.</small> </div> <div style="text-align: center; margin-top: 10px;">  IEEE <small>STUDENT BRANCH SVB16621</small> </div> <p style="text-align: center;">National Conference on Recent Trends in Computing & Communication Technologies for Smart Environment (NCRTCCTSE'21)</p> <p style="text-align: center;">Date: 13.03.2021</p> <div style="text-align: center;">  </div> <p style="text-align: center; font-size: small;">Organized by Department of Computer Science and Engineering In association with IEEE Student Branch Pondicherry, Government College, Puducherry Dt. – 605003, Tamil Nadu, India. www.kings.edu.net</p>
Last Date for Paper Submissions	26.02.2021																				
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Sl.No	Categorization	Fee(₹)																			
1.	Under Graduate (UG)	—																			
2.	Post Graduate (PG)	—																			
3.	Research scholars and industry persons.	1000																			

ANNEXURE - III

PARTICIPANTS DETAILS – COLLEGEWISE SUMMARY

S.NO	COLLEGE NAME	BATCH COUNT	STUDENTS COUNT
1.	Anjalai Ammal Mahalingam Engineering College, Kovilvenni.	1	4
2.	EGS Pillay Engineering College, Nagappattinam	1	4
3.	Government College of Engineering, Thanjavur.	2	8
4.	Kings College of Engineering, Pudukkottai	2	9
5.	Kongunadu College of Engineering & Technology	2	9
6.	P.R.Engineering college, Thanjavur	11	23
7.	PRIST University, Thanjavur	2	10
8.	Roever Engineering College, Perambalur	2	9
TOTAL		23	76

PARTICIPANTS LIST

Paper ID	Participant Details	College Name	Title
NCRTCCTSE'21-001	G.Aishwarya, D.Chinduja, K.Devibala Mrs.J.Sathiya Jothi	Anjalai Ammal Mahalingam Engineering College	Customer Awareness Creation in Branding of Home Appliances Applying Insights of Machine Learning
NCRTCCTSE'21-002	Dr.R.Manivannan S.Anbananthan Dr.S.Kannan Mr.K.Gunalan	EGS Pillay Engineering College	Enhanced Road Maintenance and Complaint System (ERMCS)
NCRTCCTSE'21-003	Sakthivel M Dinesh N Mr.N.Karthikeyan	Government College of Engineering, Thanjavur	A NOVEL TECHNIQUE TO DETECT AND PREVENT SQL INJECTION ATTACKS USING BITAP STRING MATCHING ALGORITHM
NCRTCCTSE'21-004	Shanmuganathi A Gayathri V Kowsalya G Deepika M Mr.K.Manoj kumar	Government College of Engineering, Thanjavur	Survey for analysing Sports Facilities in Educational Institution
NCRTCCTSE'21-005	E. Gayathri J. Linda Carolyn A. Nancy Priya Mrs. S. Puvaneswari	Kings College of Engineering	Social networking application for KCE
NCRTCCTSE'21-006	Shiny Roja Saradha Priya Pragathi Udhaya Ms.J.Chandra Priya	Kings College Of Engineering	Mental Health Care Application
NCRTCCTSE'21-007	Sharmila r Nivetha r Vembu m Mr. T. Yuvaraja	Kongunadu college of engineering and technology	A Smart Heathcare Monitoring System using IoT
NCRTCCTSE'21-008	Uma maheshwari.m Ms.R.BANUMATHI	P R Engineering College	Performance improvement in Cloud computing through dynamic task scheduling algorithm
NCRTCCTSE'21-009	M. Susi K. Sarojini A. Uma Maheswari Mrs. S. Jancy Sickory Daisy	P. R Engineering college	Spammer Detection and Prevention on Social Network
NCRTCCTSE'21-010	G. Vennila Ms.R.BANUMATHI	P. R. Engineering college	Fake profile identification using KNN
NCRTCCTSE'21-011	S Kanmani Ms.R.BANUMATHI	P. R. Engineering college	Detection of Social Network Spam Based on Improved Extreme Learning Machine
NCRTCCTSE'21-012	SIVAPRIYA .S Mr.Thulasiraman	P.R ENGINEERING COLLEGE	PERFORMANCE MODEL OF MAPREDUCE ITERATIVE APPLICATION FOR HYBRID CLOUD BURSTING

NATIONAL CONFERENCE ON RECENT TRENDS IN COMPUTING & COMMUNICATION TECHNOLOGIES FOR
SMART ENVIRONMENT – NCRTCCTSE'21

Paper ID	Participant Details	College Name	Title
NCRTCCTSE'21-013	Tamilarivu.T Mrs. S. Jancy Sickory Daisy	P.R.Engineering college	Modern Agricultural Development System
NCRTCCTSE'21-014	Rajalakshmi Ms.Latha	P.R.Engineering college	IT based bug tracking system
NCRTCCTSE'21-015	Jayapriya.K Gayathri.S	P.R.Engineering College	RESPONSIBLE COMMUNICATE IN FAVOR OF SENSOR NETWORKS BY MOBILE SINK
NCRTCCTSE'21-016	K.Nishma Ms.R.BANUMATHI	P.R.Enginerring collage	Increase productivity using quality management system
NCRTCCTSE'21-017	Anjana devi.s Aparna.r Shri janahi.g Subashri.a Miss. GAYATHRI.K	PRIST UNIVERSITY,THANJAVUR	Anonymous Counting Problem in Trust Level Warning System for VANET.
NCRTCCTSE'21-018	M.dhanushya S.manonmani R.sinega T.thiravida thendral PROF.DR.A.BAJULUNISHA	Roever Engineering College	Covid-19 prediction from CT-scan images using Deep Learning Algorithm
NCRTCCTSE'21-019	V.Mohanraj S.Mouleeshwaran A.R.Navin P.Prasath Dr.K.Amudha	Kongunadu college of engineering and technology	Automatic Library Management System using Text and Face recognition
NCRTCCTSE'21-020	R.Manimekalai M.Nadhiya A.Seetha Mrs.A.Dhanamathi	Roever Engineering College	Scuttlebutt word analysis using Deep learning in social networks
NCRTCCTSE'21-021	Z.Syed Thameem ashik K.Hariharan K.Kannan R.Kabilan Ms.R.Banumathi	PRIST UNIVERSITY,THANJAVUR	Client centric proxy re-Encryption for outsourced data in the cloud
NCRTCCTSE'21-022	K.Kavya Ms.R.Banumathi	P.R.Engineering College, Thanjavur	Electronic File Tracking
NCRTCCTSE'21-023	K.Pradeepa Ms.R.Banumathi	P.R.Engineering College, Thanjavur	SECURE SHARING OF INCOME TAX FILE USING CRYPTOGRAPHIC TECHNIQUE

ANNEXURE – IV

INVITATION

The Management, Principal, Staff & Students of
Kings College of Engineering

Cordially Invite you to the

National Level Conference
on
Recent Trends in Computing & Communication
Technologies for Smart Environment
(NCRTCCTSE'21)

Date: 13th March, 2021 | | Day: Saturday
Time: 10.00 a.m(IST)

Presentation Session : 11.00 a.m (IST)

organized by
Department of Computer Science and Engineering

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 **KINGS**
COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University Chennai
NAAC Accredited & ISO Certified Institution

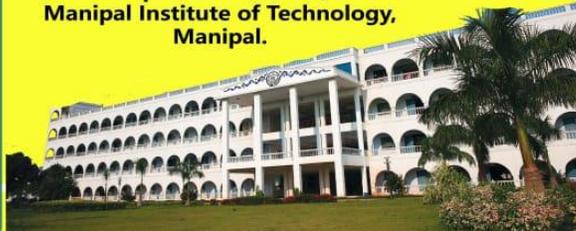
Recognized Under 2(f) & 12 (B) of UGC
Punalkulam, Gandarvakkottai Taluk, Pudukkottai Dt. - 613303
Tamilnadu, India, www.kingsindia.net

NCRTCCTSE'21
Resource Person for Invited Talk

13th March 2021 - Saturday @ 10.30 a.m (IST)



Mrs. D. Cenitta,
Assistant Professor- Senior Scale,
Department of CSE,
Manipal Institute of Technology,
Manipal.



!!!...Welcome You All...!!!

 <https://www.facebook.com/KingsCollegeofEngineering/>

20th year of
Academic Excellence
SEEK*STRIVE*SUCCEED

ANNEXURE – V

AGENDA



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2020-21 / Even Semester**

**National Level Conference on Recent Trends in Computing &
Communication Technologies for Smart Environment –**

NCRTCCTSE'21

**on
13.03.2021**

Agenda

10.05.a.m	Welcome address	Dr.S.M.Uma, HOD-CSE
10.10a.m	Overview of the conference	Mrs. S.Puvaneswari., AP/CSE
10.15.a.m	Presidential Address	Dr.S.Siva Kumar., Ph.D., Vice Principal
10.30.a.m	Introduction to Chief Guest	Mr.M.Arun., AP/CSE
10.35a.m	Key Note Address	Mrs.D.Cenitta, Asso.Prof, Department of CSE, Manipal Institute of Technology, Manipal.
11.15.a.m	Vote of Thanks	Mr.M.Arun., AP/CSE

ANNEXURE – VI

YOUTUBE LINK

The screenshot shows the YouTube mobile app interface. At the top, the status bar displays signal strength, time (10:51 am), and battery level (91%). The YouTube logo is prominent, along with icons for video, search, and a profile picture. Below the header, there are two channel avatars: 'KINGS' and 'Brown pe...'. A navigation bar contains tabs for 'All', 'Today', 'Continue watching', and 'Unwatched'. The main content area features a video player for 'Electronics and Communication for Digit...' by 'Kings College of Engineering Punalkulam', which has 186 views and was streamed 23 hours ago. Below this, a video thumbnail for 'National Conference on Recent Trends in Computing and Communication Techn...' is shown, featuring a green and yellow design with the text 'VIRTUAL CONFERENCE' and 'KINGS COLLEGE OF ENGINEERING'. The thumbnail includes details about the conference date (13th March 2021) and the speaker, Mrs. D. Cenitta. A duration of 57:20 is visible in the bottom right corner of the thumbnail. At the bottom of the app, a navigation bar includes icons for Home, Explore, Subscriptions, Notifications, and Library.

ANNEXURE – VII

SAMPLE CERTIFICATE

*20th Year of
Academic Excellence*
SEEK • STRIVE • SUCCEED

NAAC Accredited Institution
 **KINGS**
COLLEGE OF ENGINEERING



Approved by AICTE New Delhi & Affiliated to Anna University Chennai
Recognized Under 2(f) & 12 (B) of UGC

**Certificate Id:
NCRTCCTSE'21-002**

Punalkulam, Gandarvakkottai Taluk, Pudukkottai District-613 303
Tamil Nadu, India, www.kingsindia.net

**National Level Conference on Recent Trends in Computing & Communication Technologies for Smart Environment
(NCRTCCTSE'21)**

CERTIFICATE OF PARTICIPATION

This is to certify that **S. Anbananthan**
EGS Pillay Engineering College has Presented a Paper titled
Enhanced Road Maintenance and Complaint System (ERMCS)

in the National Level Conference on Recent Trends in Computing & Communication Technologies for
Smart Environment (NCRTCCTSE'21) Organized by Department of Computer Science and
Engineering, Kings College of Engineering, Punalkulam, Pudukkottai, Tamil Nadu, India
on 13th March 2021.

Ms.S.Puvaneswari, AP/CSE
Mr.M.Arun, AP/CSE
Organizing Secretaries

Dr.S.M.Uma
Conference Chair

Dr.J.Arputha Vijaya Selvi
Principal