CONFERENCE REPORT

NATIONAL CONFERENCE

ON

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING AND SUSTAINABLE DEVELOPMENT

(RTNCAGS '25)

25th March, 2025

Jointly Organized by
Department of AI&DS, CSE, ECE and EEE
2024-25

SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Under Section 2(f) of the University Grants Commission (UGC) Act, 1956

**146/14B1, Amaravathi Village, Amaravathiputhur Post,
Karaikudi – 630 301, Sivagangai Dt, Tamil Nadu
Website : www.sriraajaraajan.in, E-mail : srrcet2010@gmail.com, Ph: 7373711333**

INDEX

PROPOSAL LETTER
TO CONDUCT NATIONAL CONFERENCE

24.02.2025

From

Heads of the Department (AI&DS, CSE, ECE & EEE),

Sri Raaja Raajan College of Engineering & Technology,

Amaravathiputhur.

To

The Principal,

Sri Raaja Raaja College of Engineering & Technology,

Amaravathiputhur.

Sir,

We are willing to conduct jointly a National Conference for Research Persons, Scholars and Students on "Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development" on 25th March, 2025. We kindly request you to give approval and guidance to conduct the conference in a successful manner.

Thanking you

Yours Sincerely,

HoD / AI&DS - _D. Suja..._ 24/2/25

HoD/ CSE - _[signature]_ 24/2/25
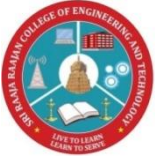
HoD / ECE - _[signature]_ 24/2/25

HoD/EEE - _[signature]_ 24/2/25

Remitted

[signature]

PRINCIPAL
Sri Raaja Raajan College of Engg. & Tech
Amaravathipudur, Karaikudi - 630 301
Sivaganga Dis   il Nadu

BUDGET

S.NO.	DESCRIPTION	AMOUNT in Rs.
1.	Postal and Brochure	1800
2.	Flex	4000
3.	Certificates	2500
4.	Souvenir	1500
5.	ID Card / Notepad / File / Pen	2750
6.	Chairs (Rental)	500
7.	Chief Guest (Memento & Honorarium)	10000
8.	Reception Items	750
	Total	**23,800**

(Rupees Twenty three thousand and eight hundred only)

PRINCIPAL
Dr. A. ELANGO
PRINCIPAL
SRI RAAJA RAAJAN COLLEGE OF
ENGINEERING AND TECHNOLOGY
AMARAVATHIPUDUR, KARAIKUKDI

SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
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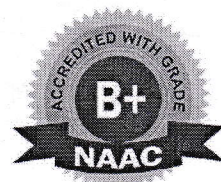146/14B1, Amaravathi Village, Amaravathiputhur Post,Karaikudi-630301, Sivagangai Dt, Tamil Nadu
Website: www.sriraajaraajan.in, E-mail:srrcet2010@gmail.com
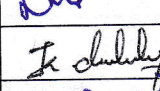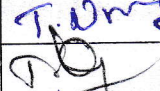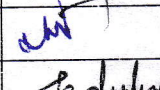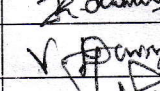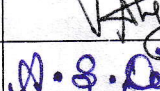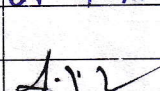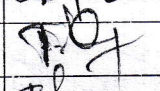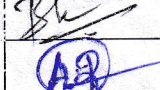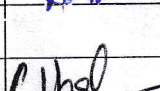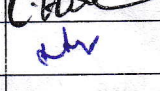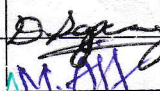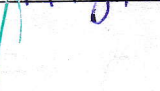
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(RTNCAGS '2025)
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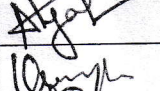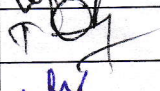**DEPARTMENT OF CSE, AI&DS, ECE, AND EEE**
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CO- CONVENERS : Mrs. D.SUJATHA, HOD / AI&DS , Mrs. K. ISABELLA RANI, HOD/ECE
Mrs. P.SHEEBA, HOD / EEE

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1.	Brochure, Invitation, Agenda, Press, Certificate, Flex, Souvenir, ID Card, Purchase File, Note Pad, Pen, Shawl, & Momento	Dr.N.Rajeshwari, DEAN / EEE	
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		Mrs.K.Isabella Rani,HoD /ECE	
		Mrs.P.Sheebha, HoD / EEE	
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		Mrs.D.Suganya, AP/CSE	
		Ms.M.Ajitha,AP/EEE	
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		Mrs.A.Jeyachitra,AP/CSE	
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		Mrs.A.S.Divya, AP/CSE	
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		Ms.K.Dhivya Bharathi, AP/EEE	
		Ms.B.Abinaya, AP/ECE	

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		Mrs.A.Iniyameenal, AP/EEE	
9.	Stage and Hall Arrangements	Mr.S.Vengatesan, AP/ECE	
		Mr.T.Kameswaran, AP/ECE	
		Mr.I.Antony Manickaraj, AP/CSE	
		Mr.K.Mahenthiran, LA/CSE	
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		Mr.Hariharan, AP/Agri	
		Mr.I.Antony Manickaraj, AP/CSE	
		Mrs.D.Suganya, AP/CSE	
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DEPARTMENT OF AI&DS, CSE, ECE AND EEE Jointly organizing

NATIONAL CONFERENCE

Recent Trends In Artificial Intelligence, Green Computing And Sustainable Development (RTNCAGS '2025)

CONFERENCE DATE
25th MARCH 2025

HIGHLIGHTS OF THE CONFERENCE
- All the accepted papers will be included in the conference proceedings with ISBN.
- Selected papers will be published in peer-reviewed journals on additional payment.
- The Best Research Paper presented in the conference will be awarded.

CALL FOR PAPERS

COMPUTER SCIENCE AND ENGINEERING
- Green Computing
- Image Processing
- Internet Of Things (IOT)
- Artificial Intelligence
- Cyber Security
- Machine Learning
- Data Analytics
- Big Data
- AR & VR
- Cloud Computing
- Block Chain

ELECTRICAL AND ELECTRONICS ENGINEERING
- Power Electronics & Drives
- E-Vehicles
- Renewable Energy Sources
- SCADA, FACTS & HVDC

ELECTRONICS AND COMMUNICATION ENGINEERING
- VLSI / Nano Technology
- Embedded Systems
- Wireless Communication
- Advanced 5G / 6G Network Architectures
- Wireless Adhoc and Sensor Networks

*Topics other than mentioned will also be accepted.
*Selected papers will be published in referred journals.

ORGANIZING COMMITTEE

CHIEF PATRON
Dr.S.SUBBIAH
Chairman, SRRCET

PATRON
Dr.A.ELANGO
Principal, SRRCET

CO-PATRONS
Dr.M.SIVAKUMAR
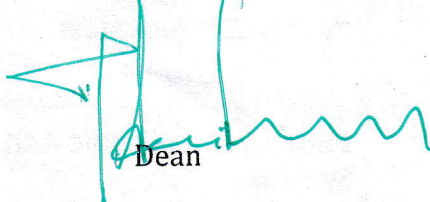Dean, SRRCET

Mr.V.MAHALINGA SURESH
Vice Principal, SRRCET

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Dean/EEE

Mr.R.SUSIL KUMAR
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HOD / AI & DS

Mrs.K.ISABELLA RANI,
HOD / ECE

Mrs.P.SHEEBA,
HOD / EEE

IMPORTANT DATES
Last Date of paper Submission
22.03.2025
Notification of paper Acceptance
23.03.2025

MODE OF CONFERENCE:
The Mode of conference is Hybrid (Online & Offline)

Registration Link :
Papers send to the Email:
conferencesrrcet@gmail.com

REGISTRATION FEE

UG / PG Students	Rs. 300/-
Industry professionals	Rs. 400/-
Faculty	Rs. 500/-
Research scholar	Rs. 750/-

PAYMENT MODE

UPI ID:
7859383000267@cnrb

CONTACT US

The Convenor,
Sri Raaja Raajan College of Engineering and Technology, Karaikudi.
94874 41043, 73734 45541

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INVITATION

SRI RAAJA RAAJAN
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AMARAVATHIPUDUR, KARAIKUDI-630 301. SIVAGANGAI DIST.

DEPARTMENT OF AI&DS, CSE, ECE and EEE
Jointly Organizing
National Conference on

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING AND SUSTAINABLE DEVELOPMENT (RTNCAGS '2025)

Date : 25th March 2025, 10.30 a.m.   Venue : Seminar Hall,

Presidential Address
Dr. S.SUBBIAH
Chairman
SRR Group of Institutions
Former Vice Chancellor,
Alagappa University, Karaikudi.

Inaugural Address
Dr. A. ELANGO
Principal, SRRCET

Felicitation Address
Dr. M. SIVAKUMAR
Dean, SRRCET

Chief Guest
Dr. A. MUTHUMARI
Department of CSE
Anna University, Madurai.

Resource Person
Dr. R. SORNA KEERTHI
Department of ECE
University College of Engineering
Ramanathapuram

All are Cordially invited
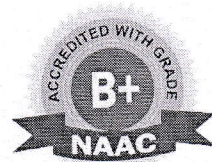
NATIONAL CONFERENCE ON
Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development
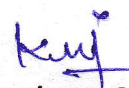
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REGISTRATION FORM

Name	: K. KAMATCHI , S. ROHIT
Student/Scholar/Faculty	: Student
Number of Participants	: 2
Institution	: KIT& KIM TECHNICAL CAMPUS, KARAD
Male/Female	: Male & Female
Educational Qualification	: BE (CSE)
Experience	: —
Mobile No	: 8946062449
Email	: kachiii2005@gmail.com
Title of the Paper	: ATUOMATED IOT BASED SMART IRRIGA SYSTM.
Details of Registration fees	: ₹600
Cash/Online Payment	: online payment

Signature of Participant

SRI RAAJA RAAJAN

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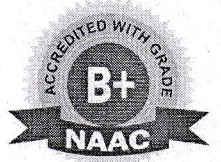
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(RTNCAGS 2025)

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REGISTRATION FORM

Name	:	S.lalith veeramanikandan
Student/Scholar/Faculty	:	Student
Number of Participants	:	01
Institution	:	Anna university, Ramanathapuram
Male/Female	:	Male
Educational Qualification	:	B.E (ECE)
Experience	:	B.E -
Mobile No	:	8344113916
Email	:	veeramanikandanlalith@gmail.com
Title of the Paper	:	A review on multiple micrower
Details of Registration fees	:	Online
Cash/Online Payment	:	online payment

Signature of Participant

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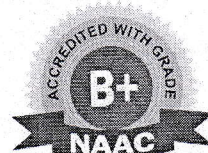
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Name	: YOGESHWARAN.S, ASWIN.S.
Student/Scholar/Faculty	: Student
Number of Participants	: 2
Institution	: Mount Zion College of Engineering and Technology, Pudhukottai
Male/Female	: Male
Educational Qualification	: B.E
Experience	: attended several Symposium
Mobile No	: 9789622516
Email	: yogeshwaran9529@mountzion.ac.in
Title of the Paper	: Wireless Communication
Details of Registration fees	: 600
Cash/Online Payment	: Cash.

Signature of Participant

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Jointly organizing

RTNCAGS '2025
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25TH MARCH 2025

Dr. S. SANTHOSH KUMAR
SPECIAL GUEST

NATIONAL CONFERENCE

ON
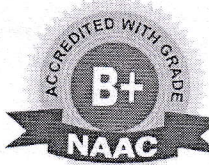
Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development

(RTNCAGS 2025)

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DEPARTMENT OF CSE, AI&DS, ECE AND EEE

S.NO	PARTICIPATION NAMELIST	SIGNATURE
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02	S. Rohit	S. R.
03	S. balith veeramcenitorcendan	S. lab
04	S. Sakthieswaran	Sakthi
05)	S. Velan	S. Velan
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07)	S. Aswin	S Aswin
08)	G. Abhaya Sri	G. Anfui
09)	G. Iswarya	G. Ish Ja
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11	G. Poshia Beryl	PB
12	S. Gayatri	S. Gayatri
13.	P. U. Suhash sundar	P. U. Soos
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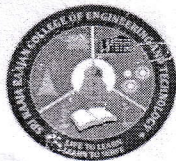
16.	R. Dhanalakshmi	R. Dhana Lakshmi
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24.	M. Naveen.	M.
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26.	D. Jeyandran	D. Jeyandran
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28.	V. Nalina (Scholar)	V. Nalina
29.	G. Alexandar Narkunam (Scholar)	G. Alen
30.	A. Punithavathi (Scholar)	Punithavathi A.
31.	Mrinali Das. (Scholar)	Mrinali Das
32.	Dr. P. Subhasri	Dr. P. Sathesri

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Amaravathiputhur Post, Karaikudi Tk

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RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING AND SUSTAINABLE DEVELOPMENT (RTNCAGS'2025)

PARTICIPATION LIST - II YEAR CSE

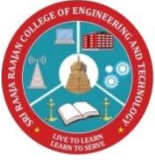| SL.NO.	REG.NO.	NAME	SIGNATURE
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2.	912523104002	ADHITHYAN P	P. Aadi
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10.	912523104011	DHARANI C	C. Dhy
11.	912523104012	DHEVA DHARSHINI S	S. Dhevadharshini
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22.	912523104023	KAVIYA K	Kaviya
23.	912523104024	KAVIYA R	D. Kaviya
24.	912523104025	KIRUTHI M	M. Kiruthi
25.	912523104026	LAVANYA K	K. Lavanya
26.	912523104027	LOGASUNDARAM T	T. Loga Sundaram
27.	912523104028	MADHUMITHA P	Mathumitha P
28.	912523104029	MANIKANDAN R	Manikandan. R
29.	912523104030	MANOJ KUMAR M	M. Manoj kumar
30.	912523104031	MANOJ ROHAN R	R. manoj Rohan
31.	912523104032	MATHANKUMAR M	Mathan Kumar
32.	912523104033	MUKESH KUMAR R	Mukesh Kumar
33.	912523104034	MUNUSAMY A	A. munusamy
34.	912523104035	NABRIN SANIYA R	R. Nabrin Saniya
35.	912523104036	NAGOOR KANI R	R. NAGOOR KANI
36.	912523104037	NANDHINI R	R. Nandh
37.	912523104038	NANTHINI K	K. Nanthini
38.	912523104039	NILESH S	S. Nilesh
39.	912523104040	PRAVEEN G	G. Praveen
40.	912523104041	PRAVEEN K	K. Praveen
41.	912523104042	PUVANESH ARTHY B	B. Puvanesh Ardhy
42.	912523104043	RAGAVI A	Ragavi
43.	912523104044	RAJESH P	P. Rajesh
44.	912523104045	RANJITH V	Ranjith

45.	912523104046	RENUKA R	
46.	912523104047	SEMBULINGAM S	
47.	912523104048	SOMASRIABISHEK B	
48.	912523104049	SRIDHAR K	
49.	912523104050	SRINITHE A	
50.	912523104051	THILOPPIKKA S	
51.	912523104052	THIRUMALEESWARAN T	
52.	912523104053	UMAPRIYA R	
53.	912523104054	VENKATESHWARI P	
54.	912523104055	VETRIVEL M	
55.	912523104056	VIJAY K	
56.	912523104057	VIJI B	
57.	912523104058	VIMALKUMAR S	
58.	912523104059	VINITHMARY S	
59.	912523104060	VISHNUVARDHAN R	
60.	912523104301	BHAVANISHREE RG	
61.	912523104302	MURUGAPPAN S	
62.	912523104303	SHAIRANJANI T	
63.	912523104304	SURYA A	

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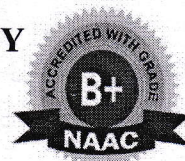
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(RTNCAGS'2025)

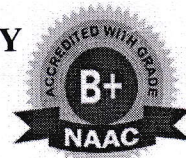**PARTICIPATION LIST - III YEAR CSE**

SL.NO.	REG.NO.	NAME	SIGNATURE
1	912522104001	AAROKIYA RUBINA A	A. Rubina
2	912522104002	ABINAYA R	R. Abinaya
3	912522104003	ABISHEK P	R. Abisek
4	912522104004	ADAVAN K	Adavan. K
5	912522104005	ADHITHYA M	M. Adhithya
6	912522104006	BHARATH R	Brath
7	912522104007	CHANDRU S	CHANDRU
8	912522104008	DHARNESH PRIYAN J	J. Dharnesh Priyan
9	912522104009	DURGA S	S. Durga
10	912522104010	GAYATHRI T	T. Gui
11	912522104011	HARI HARAN S	S. hthf
12	912522104012	HARISH VISHVA S	S. Harish Vishva
13	912522104013	INFANT RAJA S	SIRs
14	912522104014	JANARTHANAN R	R. Janf
15	912522104015	JAYAPRIYA G	Jaw Riya
16	912522104016	JEEVAKANTHAN M	Juvba Kanthan.
17	912522104017	JENCY A	Ajenay
18	912522104018	JOSBIN ANITHA S	Juucy A
19	912522104019	KARUPPU S	S. Kurrya.
20	912522104020	KAVIN S	S. Claveb
21	912522104021	KAVINESAR E	Kavin.
22	912522104022	MAITHILY A	A. Maithuy
23	912522104023	MANIKANDAN R	R. Manikandan BE
24	912522104024	MANIVEL M	MANIVEL.
25	912522104025	MARIKISHORE P	P. Marikishore

26	912522104026	MOHAN KUMAR S	
27	912522104027	MURALI KARTHICK S	S9 Murali karthick
28	912522104028	MUTHU KUMARA SAMY S	S. muthukus
29	912522104029	NANTHAKUMARAN G	G. Nanth B.E
30	912522104030	NITHISH A	Nithish.
31	912522104031	NITHISHKA M	M. Nithishka
32	912522104032	NIVETHA R	R. Nivi
33	912522104033	PALANIYAPPAN S	S. Palss
34	912522104034	PREETHIKA G	G pn to l.
35	912522104035	PRIYADHARSINI K	K. Priyadharsini
36	912522104036	RAFEEQA REEZZMAN S	S. Raf
37	912522104037	RAMESH K	K. Ramesh.
38	912522104038	RESHMA B	B. Ruf
39	912522104039	ROHINI S	Rohini.
40	912522104040	SAKTHIVEL P	Sakthivel. P.
41	912522104041	SANTHIYA C	C. Santhiya
42	912522104042	SANTHIYA MARY Y	Y. Santhiya mary.
43	912522104043	SANTHOSH K	K. Santhosh.
44	912522104044	SANTHOSH KANNA J	Santhosh Kanna.
45	912522104045	SATHEESHKUMAR P	P. Sath
46	912522104046	SEVUGAPERUMAL U	U. Sevugaperumal
47	912522104047	SIVA DHARSHANI K	K. Siva dharshani
48	912522104048	SIVAGAMI S	S. Sivagami
49	912522104049	SIVA SANKARAN G	G. Siva Salar
50	912522104050	SNEKA N	N. Sneka
51	912522104051	SOMESH KANNA P	P. Soth
52	912522104052	SRIKARAN B	B. Srikar.
53	912522104053	SUBALAKSHMI J	J. Sub.
54	912522104054	SUDESIBHARATHI J	J. Sudi.
55	912522104055	SUVITHA K	K. Suvi...
56	912522104056	THARANI D	D. Thuy
57	912522104057	USHA MALINI K	K. Usamalini
58	912522104058	VIGNESH P	
59	912522104059	VIGNESHWARAN G	G. ving
60	912522104060	VIGNESWARAN K	K. Vick
61	912522104301	BALA PRASANTH P	Bala prasanth

62	912522104302	HARIHARAN S	
63	912522104303	KIRUTHIKKARAN M	
64	912522104304	KISHORE CT	
65	912522104305	RAVIKUMAR S	
66	912522104306	SANKAR S	

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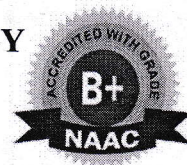
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PARTICIPATION LIST - II YEAR AI&DS

SL. NO.	REG.NO.	NAME	SIGNATURE
1	912523243001	AISHWARYA.M	M.Aishwarya
2	912523243002	AJAY.A	A.Ajay
3	912523243003	ATHIVEERA PANDI.A	A.AThi
4	912523243004	BALA MURUGAN.P	P.Balamurugan
5	912523243005	BHARANIDHARAN.R	R.Bharanidharan
6	912523243006	BHARANIDHARAN.S	S.Baaanidharan
7	912523243007	DHARANI.S	S.Dharani
8	912523243008	DIVYA DHARSHINI.V	V.DivyaDharshini
9	912523243009	DURGA.K	Durga.K
10	912523243010	GNANA SUJINDRAN.G	GS
11	912523243013	JAYAHARIKRISHNAN.B	B.
12	912523243014	JELIN.M	M.Jeli
13	912523243015	KAVIYARASAN.M	M.Kaviyarasan
14	912523243016	MAHALAKSHMI.T	T.Mahalakshmi
15	912523243017	MAHESHWARAN.K	K.Mah
16	912523243018	MUKILAN.M	Muki
17	912523243019	NAVANEETHA KRISHNAN	Navethu Krishn
18	912523243020	NIRANJAN.A	Niranjan
19	912523243021	PRIYADHARSAN.S	Priya Dranana
20	912523243022	PRIYADHARSHINI.A	Priya Pawshini
21	912523243023	PRIYADHARSHINI.R	R.P
22	912523243024	SIVAMANI.M	M.Si

23	912523243025	SUBIKSHA.T	
24	912523243026	SUBRAMANIYAN.A	
25	912523243027	SURUTHI.A	
26	912523243028	SWATHI.R	
27	912523243301	REVATHI.R	
28	912523243302	SANTHOSH KUMAR.S	

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SNO	REG.NO	NAME	SIGNATURE
1	912523106001	ABINAYA D	
2	912523106002	ABINESH M	
3	912523106003	AHAMED RISWAN B	
4	912523106004	AKALYA M	
5	912523106005	AKILESHWARI M	
6	912523106006	ARUNAGIRI V	
7	912523106007	BABY SALINI B	
8	912523106008	BAVYA B	
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10	912523106010	DEEPAK K	
11	912523106011	DEEPIKA R	
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13	912523106013	HARI ARASAN K	
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15	912523106015	HARISH P	
16	912523106016	JANANI R	
17	912523106017	JASMINE ROSY A	
18	912523106018	JEJASH A	

19	912523106019	JEYALAKSHMI R	
20	912523106020	KAMALESH S	S. Kamlesh
21	912523106022	KARENFASTINA C	G. Kaust
22	912523106023	KARTHIKA A	A. Kamt
23	912523106024	KOTTAI ARASU M	M. Kottai Arasu
24	912523106025	MANIKKA SUNDARAM T	T. Manikka sund
25	912523106026	MANIMUTHU S	manimuthu
26	912523106027	MANOJ KUMAR M	M. Manoj Kum
27	912523106030	MOHANDAS M	m. Mohman
28	912523106031	NAVITHA R	R. Navitha
29	912523106032	NITHISH KUMAR P	Nithish kumar P
30	912523106033	PARANIKA D	D. Paranika.
31	912523106034	PERIYASAMY R	R. Priyesay
32	912523106035	PRAVEEN A	PRoveen P
33	912523106036	PRAVEEN M	Praveen M
34	912523106037	PREESHA S	S Prasha.
35	912523106038	PRIYADHARSHINI M	M. Periyadharshini
36	912523106039	PRIYADHARSHINI P	P. Piriyadharshini
37	912523106040	PRIYANGA S	S. Priyanga.
38	912523106041	RAJALAKSHMI R	R. Rajalakshmi
39	912523106042	RAJESHWARI K	K. Rajeshwari
40	912523106043	RAMANATHAN R	R. Ramanathan
41	912523106044	RITHIKA R	R. Rithika
42	912523106045	RIYASKHAN R	R. Riya Khan
43	912523106046	SAKTHEESAN A	A. saf
44	912523106047	SANGEETHA R	R. Sangeetha.
45	912523106048	SARAVANAMURUGAN V	V. Saravanamuru
46	912523106049	SATHISH PANDIYAN S	Sathish pandiyan S
47	912523106050	SHOBANATH P	Shobanath P
48	912523106052	SIVABALAN M	M. Sivabalan

49	912523106053	SOUNDARYA	
50	912523106054	SRIMATHI G	
51	912523106055	SRI RAM C	
52	912523106056	TAMIL SELVAN P	
53	912523106057	VARSHA A	
54	912523106058	VIGNESHWARAN M	
55	912523106059	VISHAL M	
56	912523106060	VISHNU DEVAN R	
57	912523106061	YASHWINI S	
58	912523106301	SABAREESWARAN P	

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PARTICIPATION LIST –III YEAR / ECE

S.NO	REG.NO	NAME	SIGNATURE
1	912522106001	ABINAYA R	
2	912522106002	AKALYA A	
3	912522106003	AKALYA K	
4	912522106004	AKILESHWARAN A	
5	912522106005	AKSHAYA M	
6	912522106007	ARTHI P	
7	912522106008	ARTHY K	
8	912522106009	ARUN K	
9	912522106010	ATHIYA PRASANNA S	
10	912522106011	BAGAVATHY T	
11	912522106012	GOPINATH M	
12	912522106013	GUNALAN E	
13	912522106014	HARISHKUMAR V	
14	912522106015	HASSANNA I	
15	912522106016	JEEVITH KRISHNA R	
16	912522106017	KAMALI M	
17	912522106018	KASTHURI A	
18	912522106019	KAVIRAJ E	
19	912522106020	KEERTHANA M	
20	912522106021	KUBENTHIRI M	
21	912522106022	LAKSHMI S	
22	912522106023	MATHUMATHI K	
23	912522106024	MANIKANDAN K	
24	912522106025	MANIKANDASIVA P	

25	912522106026	MERVIN JEESON S	S. Mervin Jeson.
26	912522106027	NANTHINI N	N. Nanthi.
27	912522106028	NANTHINI R	R. Nanthini
28	912522106029	NITHYA DHARSHINI B	B.
29	912522106030	PRAVEEN S	S. Praveen
30	912522106031	PRIYA A	
31	912522106032	RAJESH V	V. Rajesh
32	912522106034	RAKESH K	K. Rajesh
33	912522106036	RAKSHANA R	R. Rakshana
34	912522106037	RATHISH R	R. Rathish
35	912522106038	RAVEENA M	Raveena
36	912522106040	RIYAZ MOHAMED S	Riyaz Mohamed.
37	912522106042	SAMEERA BEGAM H	Sameera. H.
38	912522106043	SANTHOSH M	Santh. M
39	912522106044	SANTHOSHKUMAR S	Santhosh kmr. S
40	912522106045	SARAN S	S. Saran
41	912522106046	SARANYA J	Saran, J
42	912522106047	SARANYA P	P. Saranya.
43	912522106048	SARAVANAKUMAR S	S. Saravanakumar
44	912522106049	SATHYA S	S. Sathya.
45	912522106050	SUBTHARA S	Subathra. S.
46	912522106051	UTHAYA SANKAR B	B. Uthayasanker
47	912522106053	VIJI S	S. Viji
48	912522106054	VISALATCHI V	V. Sab...
49	912522106301	DINESH AAKASH	Dinesh Aat.
50	912522106302	IFTHIK KHAN	Ifthikkhan.
51	912522106303	MATHIARASN	Mathi
52	912522106304	PALANISAMY	Palanisamy S.
53	912522106306	SUSIL KUMAR	Susil Kumar
54	912522106401	V.LAKSHMANAN	Lakshman n. v

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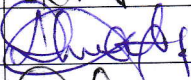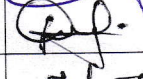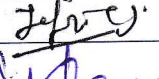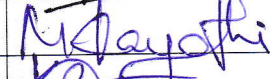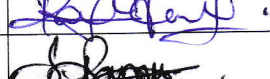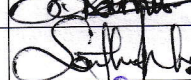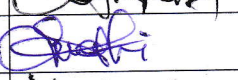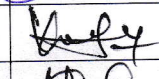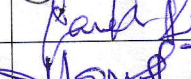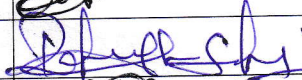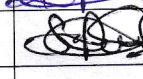
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RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING AND SUSTAINABLE DEVELOPMENT (RTNCAGS'2025)

ATTENDANCE

S.NO	REGISTER NUMBER	STUDENT NAME	SIGNATURE
1.	912523105001	ABIMANYU S	
2.	912523105002	AFRIN BEGAM	
3.	912523105003	CHOKKALINGAM V	
4.	912523105004	DEEPAK R	
5.	912523105005	DINESH B	
6.	912523105006	KABILAN R	
7.	912523105007	MANIKANDAN K	
8.	912523105008	NAVEENKUMAR K	
9.	912523105009	PARTHASARATHI K	
10.	912523105010	PRAGATESHWARAN R	
11.	912523105011	ROHITH R	
12.	912523105012	SAKTHIVEL M	
13.	912523105013	SRI KAVIN K	
14.	912523105014	THIRUMURUGAN T	
15.	912523105015	UTHITH P	
16.	912523105016	YUVARAJ D	
17.	912523105301	ASWIN K	
18.	912523105303	GUNABALAN R	
19.	912523105304	KALI K	
20.	912523105305	SUBRAMANIYAN T	
21.	912523105306	YOGESHWARAN B	

S.NO	REGISTER NUMBER	STUDENT NAME	SIGNATURE
22.	912522105001	ABIMANI	
23..	912522105002	AJITHA . R	
24.	912522105003	ARUN.S	
25.	912522105005	BHARATHVAJ.R	
26.	912522105006	DHANA BALAN.K	
27.	912522105007	DHANUSH	
28.	912522105008	JEFRI.S	
29.	912522105010	KAYATHRI.M	
30.	912522105011	KEERTHIKA.P	
31.	912522105013	PRAVEEN KUMAR.S	
32.	912522105014	RAMU.S	
33.	912522105015	SANTHOSH KRISHNAN.S	
34.	915222105016	SWATHI.P	
35.	912522105018	VIGNESH.S	
36.	912522105019	YOGESHWARAN	
37.	912522105302	GANESH PRABHU S	
38.	912522105303	HARISHWARAN B	
39.	912522105304	JAIKATHEESH K	
40.	912522105305	PALANISELVAM S	
41.	912522105306	ROSHIKA S	
42.	912522105307	SRIKANTH G	

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146/14B1, Amaravathi Village, Amaravathiputhur Post, Karaikudi – 630 301, Sivagangai Dt, Tamil Nadu
Website : www.sriraajaraajan.in, E-mail : srrcet2010@gmail.com, Cell: 7373711333

DEPARTMENT OF AI&DS, CSE, ECE and EEE

Jointly Organizing National Conference on

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING AND SUSTAINABLE DEVELOPMENT

Certificate

This is to certify that Mr. / Ms. LAVANYA K., ASSISTANT PROFESSOR/

of SACS MAVMM ENGINEERING COLLEGE, MADURAI CSE

has Participated / Presented a paper entitled AVOIDING THE ROAD OBSTACLES USING ULTRASONIC SENSOR DETECTION & ENHANCE FOR AMBULANCE

at the National Conference on **RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING AND SUSTAINABLE DEVELOPMENT** organized by the Department of **AI & DS, CSE, ECE and EEE, SRRCET,** Amaravathiputhur, Karaikudi on 25th March, 2025.

Dr.M.SIVAKUMAR
Dean

Dr.A.ELANGO
Principal

Dr. S.SUBBIAH
Chairman

National Conference RTNCAGS

SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

NATIONAL CONFERENCE
RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING AND SUSTAINABLE DEVELOPMENT
(RTNCAGS' 2025)
ORGANIZED BY
DEPARTMENT OF AI & DS, CSE, EEE & ECE

DATE: 25-03-2025   **AGENDA**   TIME: 10.30 a.m.

1.	Prayer Song	
2.	Lighting the Lamp	
3.	Welcome Address	Dr.N.Rajeswari, Dean / EEE
4.	Honouring the Chief Guest	
5.	Presidential Address	Dr.S.Subbiah Chairman
6.	Inaugural Address	Dr.A.Elango Principal
7.	Felicitation Address	Dr.M.SivaKumar Dean
8.	Thematic Presentation	Mr.R.Susil Kumar, HoD/CSE
9.	Souvenir Release	
10.	Key Note Address	Mr.S.Santhosh Kumar Assistant Professor Alagappa University, Karaikudi
11.	Resource Person Address	Dr.R.Sorna Keerthi, Professor Anna University, Ramanathapuram
12.	Chief Guest Address	Dr.A.Muthumari Professor Anna University, Madurai
13.	Paper Presentation	
14.	Lunch	
15.	Paper Presentation	
16.	Certificate Distribution	
17.	Feedback by Participants	
18.	Vote of Thanks	Mrs.K.Isabella Rani, HoD/ECE
19.	National Anthem	

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NATIONAL CONFERENCE ON

Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development

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DEPARTMENT OF CSE, AI&DS, ECE AND EEE

DATE: 25-03-2025	FEEDBACK FORM

Please make sure that you answer these questions in such a way that, we could Improve our contribution better next time.

Please Rate Each Presentation Separately

Were the Student Paper Presentations useful?

◯ Very useful   ⊘ somewhat useful   ◯ Not at all useful

➤ Please explain: _____

Was the time allotted to paper presentation?

⊘ Good   ◯ Fair   ◯ Needs improvement

➤ Comments: _It's really been a good experience for all of u and good opportunity to deliver the talent of student_

About our Hospitality: _Good_

Any improvement areas and / or additional comments: _It helps us to reduce our stage fear and improve our knowledge by listening other's presentation._

THANK YOU

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Please make sure that you answer these questions in such a way that, we could Improve our contribution better next time.

Please Rate Each Presentation Separately

Were the Student Paper Presentations useful?

(✓) Very useful   ( ) somewhat useful   ( ) Not at all useful

➢ Please explain: _____

Was the time allotted to paper presentation?

(✓) Good   ( ) Fair   ( ) Needs improvement

➢ Comments: It has been a good experience for all of us.

About our Hospitality: _____

Any improvement areas and / or additional comments: It helps us to learn some new things

THANK YOU
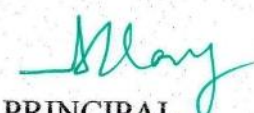
PROGRAMME REPORT

Programme Name	**National Conference**
Date & Day	**25th March, 2025 & Tuesday**
Time	**10.30 am to 4.00 pm**
Venue	**Seminar Hall**
Resource Persons	**Dr.A.Muthumari, Professor, Anna University, Madurai**
	Dr.R.Sorna Keerthi, Professor, Anna University, Ramanathapuram
No. of Researchers, Faculties and Students attended	**75**
Conference Organized by	**Department of AI&DS, CSE, ECE and EEE**

PRINCIPAL
Dr. A. ELANGO
PRINCIPAL
SRI RAAJA RAAJAN COLLEGE OF
ENGINEERING AND TECHNOLOGY
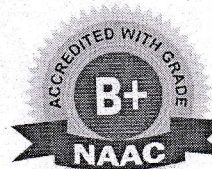AMARAVATHIPUDUR, KARAIKUKDI

SRI RAAJA RAAJAN

COLLEGE OF ENGINEERING AND TECHNOLOGY

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NATIONAL CONFERENCE

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING AND SUSTAINABLE DEVELOPLMENT (RTNCAGS 2025)

National Conference on **Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development** held on **25th March, 2025** at Sri Raaja Raajan College of Engineering and Technology, Amaravathiputhur, Karaikudi.

National Conference on Recent Trends in Artificial Intelligence, **Green Computing and Sustainable Development** organized by Department Artificial Intelligence and Data Science, Department of Computer Science and Engineering, Department of Electronics and Communication Engineering, Department of Electrical and Electronics Engineering. The National Conference was attended by Research scholars, Industrialists, Faculty members and students who included Chief Guest, Resource Person, HOD's, Staff members and Students. The Presidential Address was given by Dr.S.Subbiah, Chairman, Sri Raaja Raajan Group of Institutions and Former Vice Chancellor of Alagappa University, Karaikudi insisting the opportunities in Artificial Intelligence, importance of Green computing and investment for this technology in various countries. Inaugural address by the Principal of SRRCET Dr.A.Elango, in his inaugural address appraised the participants of the efforts taken for this conference. Felicitation address by Dr.M.SivaKumar, Dean of SRRCET, felicitates the conference in way to bring new ideas to the society. Earlier Welcome address given by Dr.N.Rajeswari, Dean of Electrical and Electronics Engineering welcoming all the dignitaries, Conference Thematic presentation about Artificial Intelligence and Green computing given by Mr.R.Susil Kumar, Head of the Department, Computer Science and Engineering. **Chief Guest Dr.A.Muthumari, Professor, Anna University, Madurai** delivers the need for research in Green and Sustainable computing,

On Resource person address **Dr.R.Sornakeerthi, Profoessor, Anna University**, **Ramanathapuram** gave presentation about Artifical Intelligence and Green Computing and Special Guest **Dr.S.Santhosh Kumar, Alagappa Univeristy, Karaikudi** motivates the students to involve in research in recent trends.

Morethan 50 conference papers received from various Engineering Colleges, The certificate was issued to the scrutinized and selected paper.Faculties from Srilanka, Experts from various Engineering fields attend the conference along with Faculty members of various Engineering colleges , SRRCET and more than 250 students participated in this event. Finally Mrs.K.Isabella Rani, Head of the Department, Electronics and Communication Engineering gave vote of thanks.

Dr.S.Subbiah, Chairman of SRR Group of Institutions releases the Souvenir to Dr.A.Muthumari, Professor, Department of Computer Science and Engineering, Anna University, Chennai.
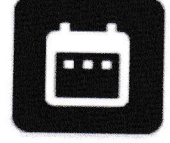
ஸ்ரீராஜராஜன் இன்ஜி., கல்லூரியில்

ஏ.ஐ டெக்னாலஜி தேசிய கருத்தரங்கம்

▶ காரைக்குடி ஸ்ரீராஜராஜன் பொறியியல் கல்லூரியில் நடந்த தேசிய கருத்தரங்கில் விழா மலரை பேராசிரியர் எஸ்.சுப்பையா வெளியிட்டார்.

காரைக்குடி, மார்ச் 27: காரைக்குடி அருகே அமராவதிபுதூர் ஸ்ரீராஜராஜன் பொறியியல் கல்லரியில் நடைமுறையில் செயற்கை நுண்ணறிவு, தகவல் தொழில் நுட்பம் மற்றும் நிலையான வளர்ச்சி என்ற தலைப்பில் தேசிய அளவிலான கருத்தரங்கம் நடந்தது. பேராசிரியர் ராஜேஸ்வரி வரவேற்றார். கல்விகுழும ஆலோசகர், முன்னாள் துணைவேந்தர் எஸ்.சுப்பையா தலைமைவகித்து பேசுகையில், கருத்தரங்குகள் பல்வேறு துறைசார்ந்த வல்லுநர்கள் உரையாற்றும் போது மாணவர்களுக்கு அந்தத்துறைகளில் ஈடுபாடு வளர்வதோடு, விடை தெரியாத பல்வேறு கேள்விகளுக்கு விளக்கம் கிடைக்கும். எனவே தான் ஸ்ரீராஜராஜன் கல்விக்குழுமத்தில் பல்வேறு தொடர் கருத்தரங்குகள் நடத்தப் பட்டு வருகிறது. தற்போது

வளர்ந்துவரும் ஏ.ஐ டெக்னாலஜி குறித்து மாணவர்கள் தெரிந்து கொள்ள இந்த தேசிய கருத்தரங்கம் ஏற்பாடு செய்யப்பட்டுள்ளது. ஏ.ஐ டெக்னாலஜியை பயன்படுத்துவது மற்றும் அத்துறையில் முதலீடு செய்வதில் சீனா முதலிடத்தில் உள்ளது. அமெரிக்கா 2வது இடத்திலும், இந்தியா 3வது இடத்திலும் உள்ளது. உலக அளவில் ஏ.ஐ டெக்னாலஜியில் 43.5 பில்லியன் டாலர் முதலீடு செய்யப் பட்டுள்ளது. இதில் சீனா மட்டும் 31.7 பில்லியன் டாலர் முதலீடு செய்துள் ளது. ஹெல்த்கேர், ஆடோ மோடிவ் துறைகளில் அதிக கவனம் செலுத்திகின்றனர்.

தீர்க்க முடியாத பல் வேறு பிரச்சனைகளை மிக வும் எளிதாக தீர்க்க ஏ.ஐ டெக்னாலஜி பயன்படுத் தப்படுகிறது. இந்தியா தேவையை விட அதிக மாக இத்துறையில் முத லீடு செய்துள்ளது. நிதி

மேலாண்மை, விண்வெளி ஆராய்ச்சி, விவசாயம், டேட்டா பாதுகாப்பு, மொபைல் கேமிங் உள் பட பல்வேறு துறைகளில் பயன்படுத்தப்படுகிறது. எதிர்காலத்தில் ஏ.ஐ யின் ஆதிக்கம் அதிகமாக இருக்கும். இத்துறையில் திறன்களை வளர்த் துக் கொள்பவர்களு க்கு வேலை வாய்ப்பு அதிகமாக உள்ளது என் றார்.

கல்லூரி முதல்வர் இளங்கோ, டீன் சிவக்கு மார் முன்னிலை வகித்த னர். அண்ணா பல்க லைக்கழக பேராசிரியர் முத்துமாரி, முனைவர் சொர்ண கீர்த்தி, அழ கப்பா பல்கலைக்கழக கணினிதுறை பேராசிரியர் சந்தோஷ்குமார், ஒருங்கி ணைப்பாளர் வடிவாம் பாள் உள்பட பலர் கலந்து கொண்டனர். துணை முதல்வர் மகாலிங்கஜரேஷ் நன்றி கூறினார்.

ஸ்ரீ ராஜராஜன் பொறியியல் கல்லூரியில் தேசிய கருத்தரங்கம்

காரைக்குடி:

சிவகங்கை மாவட்டம் காரைக் குடி அருகே அமராவதிபுதூர் ஸ்ரீ ராஜ ராஜன் பொறியியல் கல்லூரியில் செயற்கை நுண்ணறிவு மற்றும் தரவு அறிவியல், கணினி அறிவியல் மற்றும் பொறியியல், மின் மற்றும் மின்னணு பொறி யியல், மின்னணு மற்றும் தகவல் தொடர்பு பொறியியல் ஆகிய துறைகள் சார்பாக "நடைமுறையில் செயற்கை நுண்ணறிவு, பசுமை தகவல் தொழில்நுட்பம் மற்றும் நிலையான வளர்ச்சி", என்ற தலைப்பில் தேசிய கருத்தரங்கம் நடைபெற்றது.

விழாவில் ஸ்ரீ ராஜ ராஜன் கல்வி குழுமத்தின் தலைவர், அழகப்பா பல்கலைக்கழக மேனாள் துணைவேந்தருமான

முனைவர்.சுப்பையா தலைமை வகித்து உரையாற்றினார். தனது உரையில் "பசுமை தகவல் தொழில் நுட்பம்" பற்றிய தகவல்களையும் அதன் முக்கியதுவத்தையும் எடுத் துரைத்தார்.

கல்லூரியின் முதல்வர் முனை வர்.இளங்கோ கருத்தரங்கத்தை துவக்கி வைத்து உரையாற்றினார். தேசிய பொறியியல் கல்லூரியின் டீன் முனைவர் சிவக்குமார் வாழ்த் துரை வழங்கினார். சிறப்பு விருந் தினர்களாக அண்ணா பல்கலைக் கழகம், முனைவர்.முத்துமாரி, மற்றும் பேரா.முனைவர். சொர்ணகீர்த்தி, கலந்து கொண்டு கருத்தரங்கத்தின் முக்கியத்துவத்தை எடுத்துரைத்தனர்.

மேலும் அழகப்பா பல்க லைக்கழக கணினி துறை பேரா.

முனைவர்.சந்தோஷ் குமார் கலந்து கொண்டு சிறப்பித்தார். கணிப்பொறி துறை தலைவர் சுசில் குமார் கருத்தரங்கு பற்றிய கருத்துரை வழங்கினார்.

மின் மற்றும் மின்னணு பொறி யியல் துறை டீன் முனைவர். இரா ஜேஸ்வரி வரவேற்றுப் பேசினார். வெளிநாட்டு பல் கலைக்கழகங்கள் மற்றும் பல்வேறு முன்னணி பொறியியல் கல்லூரிகளில் இருந்து பெறப்பட்ட 50க்கும் மேற்பட்ட ஆய்வு கட்டுரைகள் சமர்பிக்கப்பட்டது. அதிலிருந்து தேர்ந்தெடுக்கப்பட்ட கட்டுரைகளுக்கு சான்றிதழ்கள் வழங்கப்பட்டது.

உடன் கல்லூரியின் துணை முதல்வர் மகாலிங்க சுரேஷ் மற் றும் ஒருங்கிணைப்பாளர் வடிவாம் பாள், இலங்கை பல்கலைக்கழகத் திலிருந்து பேராசிரியர்கள், பொறி யியல் வல்லுனர்கள், துறைத் தலைவர்கள், கல்லூரி பேராசிரியர் கள் மற்றும் 200க்கும் மேற்பட்ட மாணவ மாணவிகள் கலந்து கொண்டு கருத்தரங்கத்தை சிறப் பித்தனர்.

இறுதியில் மின்னணு மற்றும் தகவல் தொடர்பு பொறியியல் துறை தலைவர் இசபெல்லா ராணி நன்றியுரையாற்றினார்.

RTNCAGS '2025

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COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
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DEPARTMENT OF AI & DS, CSE, ECE AND EEE
Jointly organizing

RTNCAGS '2025
NATIONAL CONFERENCE

Recent Trends In Artificial Intelligence, Green Computing And Sustainable Development

25TH MARCH 2025
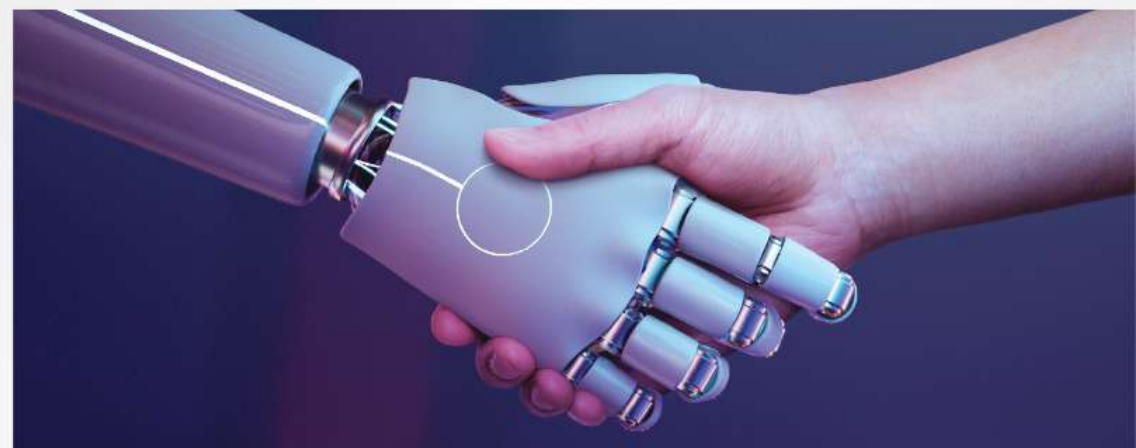
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SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
Amaravathiputhur, Karaikudi - 630301

NATIONAL CONFERENCE

On

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, GREEN COMPUTING & SUSTAINABLE DEVELOPMENT

R T N C A G S - 2025

25ht March 2025

SOUVENIR

Jointly Organized by

Department of AI&DS, CSE, EEE & ECE

MESSAGE

    I am glad to know that the Department of AI&DS, CSE, EEE & ECE of Sri Raaja Raajan College of Engineering and Technology, Karaikudi, is organizing an National Conference on the title **Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development** on 25th March 2025. I feel that this National Conference would help students to have interactions with experts in the field of Artificial Intelligence, Computer Science, Electrical and Electronics to enhance their knowledge.

    My best wishes to all the staff and students who have taken efforts to make this National Conference a successful event.

Dr.S.SUBBIAH
Chairman
SRR Group of Institutions
Former Vice Chancellor
Alagappa University, Karaikudi.

ANNA UNIVERSITY REGIONAL CAMPUS MADURAI
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Dr. A. MUTHUMARI, M.E., Ph.D.,
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20-03-2025

Message

It is a great honor for me to serve as the Chief Guest for the National Conference on **"Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development (RTNCAGS'2025)"** organized in collaboration with the Departments of Artificial Intelligence & Data Science, Computer Science and Engineering, Electronics and Communication Engineering and Electrical and Electronics Engineering. This conference brings together experts and scholars from diverse yet interconnected fields to address key challenges in technology and sustainability.

Artificial Intelligence and Green Computing are at the forefront of modern innovations, and their alignment with sustainable development is critical for shaping the future. By integrating the expertise from these significant engineering domains, this conference serves as a platform to explore novel solutions that will positively impact both technological progress and environmental stewardship.

I extend my heartfelt appreciation to the organizing departments for their efforts and the participants who will share their insights and research. Conferences like these play a pivotal role in fostering cutting-edge research and collaboration to drive sustainable development forward.

I am confident that this conference will generate insightful discussions and innovative ideas, helping us achieve a balance between technological advancement and sustainability. I encourage everyone to actively participate and contribute to this meaningful dialogue.

Wishing you all a successful and enriching conference experience!

20/3/2025

Dr.A.MUTHUMARI
Assistant Professor (Selection Grade)
Dept. of Computer Science and Engineering
Anna University Regional Campus Madurai
Keelakuilkudi, Madurai - 625 019.

Dr.R.SORNA KEERTHI, M. E., Ph. D.,   **Mobile: 9842617458**

Assistant Professor (Sl. Gr.)   **Email: sornakeerthi.ucer@gmail.com**

21.03.2025

MESSAGE

It is a great privilege and honor for me to serve as a Resource Person for the National Conference on **"Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development (RTNCAGS'2025)"** jointly coordinated and organized by the Departments of Artificial Intelligence and Data Science, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering. This National Conference brings the field experts like students, faculties, research scholars and industry people to a common forum to address a solution to the key challenges and make it useful for social and industrial real time applications.

I extend my sincere gratitude to the **Management, Principle, Teaching and Non-teaching faculties, student volunteers** who worked behind and in front to make this conference a successful one.

I wish this conference will surely focus on different innovative solutions related to the society and industrial issues. I hope everyone from different institutes and industries around India to actively participate and present their novel ideas in a common platform like this National Conference.

Wishing you a great success and a nice experience to gain innovative knowledge!

With Warm Regards,

Dr. R. SORNA KEERTHI, M.E.,Ph.D.,
Assistant Professor,
Department of Electronics & Communication Engg.,
Anna University,
University College of Engineering,
Ramanathapuram - 623 513.

<u>MESSAGE</u>

It gives me immense pleasure to be a part of this hosting team of National Conference on **Recent trends in Artificial Intelligence, Green Computing and Sustainable Development.** The Conference intends to bring together Scientists, Engineers and Practitioners from different disciplines to discuss concerns related to various computation techniques in Science and Technology.

I take this opportunity to welcome all the delegates of the conference. On behalf of whole team, I would like to thank all the authors, sponsors and keynote speakers for their support and co-operation.

Dr.A.ELANGO
Principal
SRRCET, Karaikudi

MESSAGE

     I am extremely happy to know that a National Conference on the Title **Recent trends in Artificial Intelligence, Green Computing and Sustainable Development** is organized on 25th March, 2025. I wish to congratulate the AI&DS, CSE, EEE & ECE Department for taking the effort in organizing the Conference

     I wholeheartedly congratulate the AI&DS, CSE, EEE & ECE departments on their outstanding efforts in organizing the National Conference. This project demonstrates their commitment to encouraging innovation and providing students, with cutting edge information. This lecture, which delivers into AI, IoT, Cloud computing and Machine learning, acts as a catalyst for intellectual development and technological success. Such initiatives not only improve students skills, but also inspire their desire to shape the future of technology. Congratulations to everyone involved in making this event a huge success

My best wishes for the National Conference

Dr.M.SIVAKUMAR
Dean
SRRCET

MESSAGE

Greetings!!!

A warm welcome to the National Conference in **Recent Trends in Artificial Intelligence, Green computing And Sustainable Development(RTNCAGS'2025)** to facilitate the exchange of knowledge in the rapidly evolving fields of engineering and technology. The purpose of this conference is not only to present the latest research and innovations but also to engage in meaningful dialogue that bridge the gap between Academia, Industry and Government.

I firmly believe that collaboration is the key to unlocking the full potential of emerging technologies. By working together, we can address the complex issues that lie ahead and progress in a way that benefits society at large

I congratulate the AI&DS, CSE, EEE and ECE departments for their hard work and dedication in organizing the National Conference

Mr.K.C.PALANIVELU
Staff Development Officer
SRRCET

MESSAGE

Greetings!!!

A warm welcome to the National Conference in **Recent Trends in Artificial Intelligence, Green computing And Sustainable Development(RTNCAGS'2025)** . I hope this event fosters valuable discussions and collaborations.

It gives opportunity to learn from each other, share our experiences and forge strong partnerships. Together we can make a positive impact on Artificial Intelligence.

I congratulate the AI&DS, CSE, EEE and ECE department staff members and students for their involvement in this conference.

I wish you all a productive and enriching conference.

Mr.V.MAHALINGA SURESH
Vice Principal
SRRCET

MESSAGE

Dear Professors and Researchers,

"The difference between the impossible and the possible lies in a person's determination."

TOMMY LASORDA

Being literate is only one aspect of education. The value of knowledge is revealed in the glimmering hues that brighten our life. With these words, I formally welcome you all to the National Conference on Recent Tends in Artificial Intelligence, Green Computing and Sustainable Development (RTNCAGS 2025).

As the convener of this conference, it is my pleasure to extend a warm invitation to you to participate in this prestigious event.

At RTNCAGS 2025, we are dedicated to providing a platform where interdisciplinary connections flourish, groundbreaking ideas are exchanged, and collaborations thrive. Our aim is to facilitate dialogue and foster innovation in the realm of recent trends in the field of Artificial Intelligence, Computer Science, Electronics and Communication, Electrical and Electronics Engineering.

I am confident that you will enjoy a motivating conference and I know that your presence and participation will add to the fervor surrounding the subject and improve discussions, fostering new ideas and partnerships.

I wish that RTNCAGS will keep on growing in coming years with more impact on the National and International research community.

I want to thanks in advance for the support of all the speakers, participants, organizing committee, sponsors and other contributors for their sparkling efforts and their belief in the excellence of RTNCAGS 2025.

Best Wishes,

Dr. N. Rajeswari,
Convener.

MESSAGE

My warm wishes and Greetings to all of you,

It gives immense pleasure and satisfaction to see such an enthusiasm and dedication in scholars to take initiative of technologies through research conference being organized by Department of AI&DS, CSE, ECE and EEE. I thank each of the participants personally for their sincere response and to give best possible and practical way.

I hope that the National conference **RTNCAGS 2025**.will help all the Scholars, Faculty members, Researchers and students to exchange their technical knowledge and information in the field of Artificial Intelligence and Computer Science and Engineering. Kindly utilize this event to enhance the knowledge. I wish you all the best in all your endeavors in future.

I convey my sincere thanks to our beloved Chairman, **"Dr.S.Subbiah.,** Principal **Dr.A.Elango** and our Dean **Dr.M.Siva Kumar** for extended support to organize this National Conference **RTNCAGS 2025.**

I whole heartedly thank all the staff members and students of Computer Science & Engineering for their cooperation and support for making this conference as a exceptional event.

Mr. R. SUSIL KUMAR, M.E.,
Head of the Department
COMPUTER SCIENCE & ENGINEERING

MESSAGE

Greetings to all of you,

It is great pleasure and pride that I extend my warmest greetings to all participants, speakers and distinguished guests attending the **Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development (RTNCAGS'2025)** organized by the AI&DS, CSE,ECE & EEE at SRRCET. This conference serves as a dynamic platform for academicians, researchers and industry professionals to exchange ideas, present innovations and explore the latest technologies.

In today's rapidly evolving technological landscape, collaboration and knowledge sharing are essential for progress.This conference provides an opportunity to foster interdisciplinary discussions, encourage research driven solutions, and bridge the gap between academic and industry. I commend the organizing committee, faculty members and students for their dedication in making this event a success.

I encourage all participants to engage actively, network with experts, and take away valuable insights that will contribute to their academic and professional growth.

I convey my sincere thanks to our **Chairman Dr.S.Subbiah**,P**rincipal Dr.A.Elango,M.E.,Ph.D, Dean Dr.R.Sivakumar, Ph.D** for extend support to organize this conference.

I extend my sincere gratitude to all HOD's ,Staff members and Students of AI&DS, CSE, ECE & EEE.

Wishing you all an enlightening and fruitful experience at **RTNCAGS'2025.**

Mrs.D.SUJATHA,M.E.,
Head of the Department
ARTIFICIAL INTELLIGENCE & DATA SCIENCE

MESSAGE

My warm wishes and greetings to all of you,

The National Conference was conceived about a month ago. We are pleased to note that the response was highly encouraging from different institutions. I thank each of the participants personally for their sincere response.

I hope that the conference will help all the students to exchange their technical views and information in the field of Engineering. Kindly utilize this event to enhance the knowledge. I wish you all the best in all your endeavors in future.

I convey my sincere thanks to our beloved Chairman, **"Dr.S.Subbiah.,** Principal **Dr.A.Elango** and our Dean **Dr.M.Sivakumar** for extended support to organize this Conference.

I whole heartedly thank all the staff members and students of Electronics and Communication Engineering for their cooperation and support for making this National Conference as a special event.

"Inspiration is one thing & you can't control it but hard work is what keeps the ship moving. Good luck means work hard. Keep up the good work"

Mrs. K. ISABELLA RANI, M.E.,
Head of the Department
Electronics and Communication Engineering
SRRCET.

MESSAGE

It is with great pleasure and enthusiasm that I welcome you all to the National conference on "Recent Trends in Artificial Intelligence, Green Computing and Sustainable Development", organized by the Department of AI&DS, CSE, ECE, EEE. This National conference serves as a vibrant platform to share innovative ideas, recent advancements, and emerging trends in the field of Electrical and Electronics Engineering.

The rapid advancements in technology have transformed the way we perceive and utilize Electrical and Electronic systems. As we navigate through this area of smart grids, Artificial Intelligence, Sustainable energy solutions, and Automation, it is imperative to foster collaboration and innovation.

I convey my sincere thanks to our Chairman, "**Dr.S.Subbiah.,** Principal **Dr.A.Elango.**, and our Dean **Dr.M.Sivakumar**, for extended support to organize this National conference.

I extend my heartfelt gratitude to all the distinguished Speakers, Paper presenters, Participants and Committee members who have contributed to making this event a success. Your dedication and enthusiasm are the driving forces behind the growth and progress of our field.

I encourage all attendees to actively participate, exchange ideas, and make the most of this opportunity. Let us work together to push the boundaries of knowledge and innovation for a sustainable and technologically advanced future.

I wish you all a productive and enriching conference.

Mrs. P.SHEEBA, M.E.,
Head of the Department
Electrical and Electronics Engineering

Tamper Proof Blockchain Enabled Online Voting System

Ms.Priyanga B[#1], Ms.Mahalakshmi M[*2] , Ms.Priyashakhi R[*3]

Ms.Subalakshmi S[*3]

[#*]*Department of Computer Science and Engineering,*

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Abstract — The emergence of Block Chain technology presents significant potential for enhancing the security, transparency, and efficiency of online voting systems. This paper proposes a Block chain-enabled online voting system incorporating a consortium block chain, hashing techniques, and biometric verification, including fingerprint and facial recognition, to ensure a secure and tamper-proof electoral process. The consortium block chain offers a controlled, permissioned environment where trusted participants can validate transactions, reducing the risk of fraud and enhancing accountability. Hashing algorithms are employed to guarantee the integrity and immutability of votes cast, making it nearly impossible for data to be altered without detection. Biometric verification methods, such as fingerprint and facial recognition, are integrated to authenticate voters' identities, ensuring that only authorized individuals can participate in the election. This combination of block chain, cryptographic hashing(SHA) and biometric authentication provides a robust solution for secure and transparent online voting, minimizing risks such as voter impersonation, vote tampering, and election fraud. The proposed system represents a significant step towards the digitalization of elections, offering an innovative solution to modernize electoral processes while maintaining trust and reliability.

Keywords : Online Voting, Consortium Block chain, Hashing (SHA) , Finger Print

Climate Change Impact on that Global Food Supply

Ms.Divya M[#1], Ms.Meghana M[*2] , Ms.Harini A[*3]

Ms.Kavipriya R[*3]

[#*]**Department of Computer Science and Engineering,**
[#]**Assistant Professor, [*]UG Scholars,**
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Abstract — Climate change poses a significant threat to the global food supply by altering weather patterns, reducing agricultural productivity, and disrupting food distribution systems. Rising global temperatures lead to increased evaporation, changes in precipitation patterns, and extreme weather events such as droughts, floods, and storms, all of which negatively impact crop growth and yield. These climatic changes also degrade soil fertility, reduce water availability, and lead to shifting pest populations and increased disease outbreaks, further straining food production. Fisheries and aquaculture are affected by ocean acidification and rising sea temperatures, reducing fish stocks and threatening marine biodiversity. To mitigate these impacts, there is a growing need for climate-resilient agricultural practices, such as precision farming, drought-resistant crop varieties, and improved irrigation techniques. Sustainable resource management, international policy cooperation, and investment in research and innovation are essential to ensuring a stable and secure food supply for the increasing global population. Addressing climate change through sustainable practices and adaptive strategies will be key to safeguarding global food security in the coming decades.

Keywords—Climate Change, Food Security, Agriculture, Sustainability, Supply chain

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AI Driven Hybrid Intrusion Detection System: Leveraging Machine Learning for Advanced Network Security

Mrs.Divya M[#1], Mr.Ganesh Kumar S[*2] , Ms.Sudharsan T[*3]

Mr.Suryaprakash G[*3]

[#]Department of Computer Science and Engineering,*

[#]Assistant Professor, [*]UG Scholars,

SACS MAVMM Engineering College, Madurai

Abstract — Cyber Security threats have become increasingly sophisticated, making traditional intrusion detection systems (IDS) inadequate in identifying and mitigating advanced attacks. This project presents an AI Hybrid Intrusion Detection System (HIDS) that leverages machine learning techniques to enhance threat detection capabilities. The proposed system integrates XG Boost and Logistic Regression to classify network traffic as benign or malicious with high accuracy and efficiency. The system employs feature engineering and selection to improve model performance while minimizing computational overhead. XG Boost is utilized for its ability to handle complex, high-dimensional data, while Logistic Regression ensures interpretability in decision-making. The hybrid approach leverages the strengths of both models, improving detection rates and reducing false positives compared to conventional methods. The project also explores real-time deployment possibilities, scalability in cloud environments, and integration with existing security infrastructures. Experimental results demonstrate that the hybrid AI-based IDS significantly outperforms traditional rule-based and single-model approaches in identifying cyber threats. This research contributes to advancing intelligent cyber Security solutions, making networks more resilient to evolving cyber threats.

Keywords – Hybrid Intrusion Detection System, Machine Learning, Regression

Intelligent Fish Localization for Reduced Fuel Consumption and Improved Catch Rates

Ms.Sivabalasundari[#1], Ms.Amrutha Venkatesh[*2] , Ms.Harshini Babu[*3]

Ms.Samyuktha Venkatesh[*3]

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ABSTRACT:
The angling industry faces challenges related to fuel utilization and wasteful angle capture strategies. Cleverly Angle Localization (IFL) leverages progressed profound learning and inaccessible detecting innovations to upgrade angling effectiveness whereas decreasing natural affect. This paper investigates the integration of counterfeit insights (AI) with adj. imaging and sonar-based angle following for optimizing angling courses. The proposed framework comprises of three key components: (1) A angle discovery and classification show utilizing convolutional neural systems (CNNs) to analyze sonar and lackey symbolism, (2) a prescient development demonstrate utilizing repetitive neural systems (RNNs) to expect angle movement designs based on authentic and real-time information, and (3) a fuel optimization system utilizing support learning calculations to compute the foremost proficient angling courses. By combining these components, IFL minimizes pointless fuel consumption and increments the likelihood of effective capture operations. Exploratory comes about illustrate a noteworthy lessening in fuel utilization, with watched 25-30 crease, nearby a 40% change in capture rate exactness. The proposed framework offers a adaptable, data-driven approach to maintainable angling hones, lessening biological affect whereas maximizing financial effectiveness. Future investigate bearings will center on upgrading real time flexibility and growing the dataset scope to incorporate different marine situations.

Keywords – Intelligent Fish localization, Deep Learning, Remote sensing, Fuel Optimization, Sustainable Fishing.

Mirco Rovers : Robotic Vechicles for Planetary Exploration

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***UG Scholar,**

University College of Engineering, Ramanathapuram

ABSTRACT:

Micro-rovers, Small robotic vehicles designed for planetary exploration, offer a promising solution for lunar surface missions. Their compact size, energy efficiency, and lightweight design enable them to conduct scientific research in environments with extreme temperature fluctuations, rugged terrain, and reduced gravity. Equipped with advanced sensors, cameras, and communication systems, micro-rovers can capture high-resolution images, analyze soil and mineral compositions, and map out terrain to support larger missions. They are especially advantageous in scouting potential sites for human settlement, assessing lunar resources, and contributing to a deeper understanding of lunar geology and potential for in-situ resource utilization. This paper discusses the technological challenges and advancements in micro-rover systems, including innovations in autonomy, mobility, and power management, and explores their critical role in supporting long-term lunar exploration objectives.

Keywords – Micro Rovers, Robotic vehicles

Sensitive Data Classification for Privacy Preserving using AES with IWT

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ABSTRACT

The criminal record maintenance is sensitive and crucial task in forensics department. The crime records are stored in a huge data set; it can be stored, maintained and traced every day. The objective of this project is to store criminal and crime information safely. In Existing, Cryptographic-based encryption is to encrypt data into unreadable code; it is more likely to attract the attacker's attention. Once these cipher text is intercepted, the attacker will try to decrypt these cipher text to obtain some useful information, so as to carry out some illegal activities. Some health care information not only have high requirements for privacy protection, but also want to be able to express their preference in the decision-making of privacy protection, so they may want to define what information is sensitive to them and what is not. The proposed model can classify the data into sensitive data and non-sensitive data according to the user's preferences with SVM (Support Vector Machine) based machine learning classification. Since non-sensitive data pose no threat to user privacy, it can be transmitted directly on ordinary channels without being processed. While, sensitive data need to be processed before it can be transmitted. In terms of sensitive data processing, here proposes a method of combining data encryption with information hiding. Sensitive data are encrypted using Advanced Encryption Standard (AES) encryption algorithm before it can be transmitted, making it to unreadable code. Then, a novel information hiding method proposed, named the Integer Wavelet Transformation (IWT) information hiding method is used to provide a second guarantee for the security of sensitive data. In other words, the sensitive information is hidden in the multimedia carrier, so that the adversary cannot notice the existence of sensitive information.

Keywords – Forensics, Support Vector Machine (SVM), Integer Wavelet Transformation

Enhancing Diabetic Retinopathy Detection with Attention Driven DCNN for Vision Preservation

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ABSTRACT:

Diabetic retinopathy is a common and serious complication of diabetes, characterised by damage to the blood vessels in the retina due to prolonged elevated blood sugar level. As one of the leading causes of blindness in adults , early detection and timely intervention are crucial to prevent vision loss. Hence this project proposes a revolutionizing diabetic retinopathy diagnosis through attention- DCNN (Deep Convolutional Neural Network) for blindness prevention . The proposed method begins with the input of retinal images, which undergo preprocessing using an adaptive gaussian filter to enhance image quality and reduce noise . Subsequently , K - means segmentation is employed to isolate region of interest , facilitating more accurate feature extraction . The multiscale Gray level co-occurance matrix (GLCM) techniques is then utilized for feature extraction, capturing intricate patterns within the segmented images. Finally, the extracted features are classified using the attention - DCNN model , which emphasizes critical areas in the images , improving prediction accuracy. This integrated approach not only enhances the robustness of diabetic retinopathy diagnosis but also provides reliable predictive output that aids healthcare professional in making informed decision. The effectiveness of this method is validated through comprehensive experiments , demonstrating significant improvements in detection rates and classification accuracy compared to conventional techniques. This project is implemented by using python language.

Keywords – Deep Convolutional Neural Network

PERFORMANCE METRICS FOR DEEP LEARNING BASED PREDICTIVE MODEL FOR DIABETES MELLITUS AND ASSOCIATED DISEASES

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ABSTRACT

Presently, process analytics extracts the knowledge from the past data to explore, monitor, and improve the processes. The recently developed deep learning (DL) models find it helpful to analyse medical data and make decisions. Among various diseases, type 2 diabetes mellitus (T2DM) becomes a widespread disease over the globe and it leads to severe outcomes. Chronic kidney disease (CKD) and coronary heart disease (CHD) are the major illness occurred in people with T2DM. Since the earlier prediction of the risk factors related to CKD and CHD on T2DM persons is necessary, this study focuses on the design of intelligent feature selection with deep learning based risk factor prediction (IFS-DLRFP) model. The proposed IFS-DLRFP technique intends to determine the early warning to the patients with T2DM to develop CKD or CHD. In addition, the IFS-DLRFP technique includes the design of fruit fly optimization algorithm (FFOA) based feature selection technique to choose an optimal set of features. Moreover, firefly optimization with gated recurrent unit (FF-GRU) based classification technique is derived to allocate appropriate class labels to the input data.

Keywords: IFS-DLRFP, CKD and CHD

Magnetic Powered Mini Drones for Smart IoT Driven Agricultural Solutions

Ms.K.Isabella Rani
Assistant Professor, Department of Electronics and Communication Engineering
Sri Raaja Raajan College of Engineering and Technology, Karaikudi

ABSTRACT

This paper explores the integration of magnetic-powered mini drones with the Internet of Things (IoT) for enhanced agricultural solutions. By leveraging cutting-edge drone technology and IoT connectivity, the proposed system aims to address challenges such as crop monitoring, pest management, and precision agriculture. The study investigates the potential benefits of magnetic propulsion systems in mini drones, particularly in terms of energy efficiency, flight stability, and sustainability. The paper also outlines the implementation of a smart IoT framework for real-time data collection, analysis, and decision-making. The results highlight the viability of these technologies in revolutionizing the agricultural landscape, offering farmers more precise, scalable, and environmentally friendly solutions.

Keywords: Magnetic propulsion, mini drones, IoT, smart agriculture, precision farming, sustainable technology.

Enhancing Fire Safety Through Image Based Detection Systems

Ms.Gopuramdevi G[#1], Ms.Sathya M[#2], Ms.Ruckmani S[#3]

[#]Department of Electronics and Communication Engineering*
[#]Assistant Professors
Sri Bharathi College for Women, Pudukkottai

Abstract— Apart from causing tragic loss of lives and valuable natural and individual properties including thousands of hectares of forest and hundreds of houses, forest fires are a great menace to ecologically healthy grown forests and protection of the environment. Every year, thousands of forest fire across the globe cause disasters beyond measure and description. Forest and urban fires have been and still are serious problem for many countries in the world. Currently, there are many different solutions to detect the forest fires. People are using sensors to detect the fire. In this paper, we discuss a new approach for fire detection, in which modern technologies are used. In particular, we propose a platform that Artificial Intelligence based KNN algorithm. The computer vision methods for recognition and detection of smoke and fire, based on the still images or the video input from the cameras. The accuracy is based on the algorithm which we are going to use and the datasets and splitting them into train set and test set. Data has been collected from various sources and have been merged. At every stage of pre-processing, a Logistic Regression has been used.

Keywords - Flame Detection, Smoke detection, Real Time monitoring, Color Analysis,

KNN algorithm.

A Review of Machine Learning for Big data processing

Ms.M.Jothi
Assistant Professor, Department of Computer Science,
J.J. College of Arts and Science (Autonomous), Pudukkottai.

Abstract

There is no doubt that big data are now rapidly expanding in all science and engineering domains. While the potential of these massive data is undoubtedly significant, fully making sense of them requires new ways of thinking and novel learning techniques to address the various challenges. In this paper, we present a literature survey of the latest advances in researches on machine learning for big data processing. First, we review the machine learning techniques and highlight some promising learning methods in recent studies, such as representation learning, deep learning, distributed and parallel learning, transfer learning, active learning, and kernel-based learning. Next, we focus on the analysis and discussions about the challenges and possible solutions of machine learning for big data. Following that, we investigate the close connections of machine learning with signal processing techniques for big data processing. Finally, we outline several open issues and research trends.

Keywords: Machine learning, Big data, Data mining, Signal processing techniques

HYBRID TRANSFER LEARNING FOR EFFICIENT TEETH DIAGNOSIS WITH ORTHOPANTOMOGRAM RADIOGRPHS

Ms.R.REVATHI

**PG Scholar, Mookambigai College of Engineering**

Department of ECE

Mookambigai College of Engineering, Pudukkottai

ABSTRACT

The rise in the emphasis on oral diseases has elevated the need to automate the diagnostic process of such diseases. Fortunately, the availability of modern computing devices has made the automated diagnosis of teeth readily possible using deep learning. Despite this, concerns about the accuracy and function of automated diagnosis remain among patients. Accurate and timely diagnosis of dental abnormalities is crucial for effective treatment planning. Orthopantomogram (OPG) radiographs are widely used in dental practice to visualize the entire dentition and surrounding structures. However, manual interpretation of OPG images can be time-consuming and prone to human error. This paper proposes a hybrid transfer learning approach leveraging the power of deep learning to automate the diagnosis of dental abnormalities from OPG images.(1)A direct classification approach and (2) a hybrid approach that combines a deep learning model with a traditional classifier. The results revealed that all ten chosen deep learning models experienced a similar or improved performance when used in conjunction with a machine learning classifier. In particular, Vision Transformer (ViT) performed the best with a record accuracy of 96% using both the direct and hybrid approaches. The proposed approach utilizes the Alex Net architecture, a well-established convolutional neural network (CNN) model, as the backbone. To enhance the model's performance and reduce training time, transfer learning is employed. The pre-trained Alex Net model, trained on the Image Net data set, is fine-tuned on a data set of OPG images with annotated dental abnormalities.

Keywords: Orthopantomogram, Vision Transformer, Neural Network
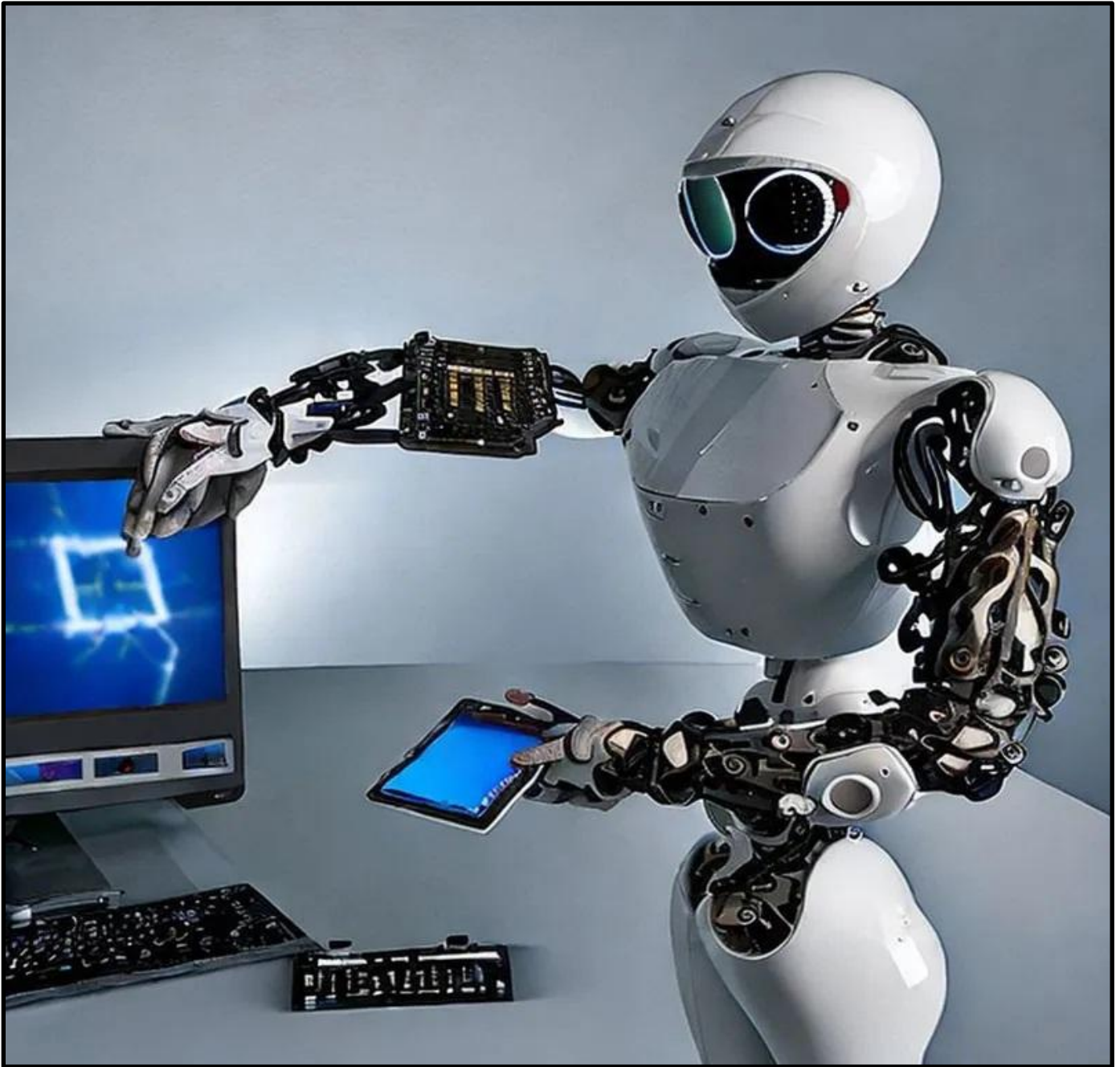
Artificial intelligence : Image generated by the Stable Diffusion model from the prompt "the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings,"

<u>Green Computing</u>: "Sustainable computing – practice of maximizing energy efficiency and minimizing environmental impact in computer systems.