ABOUT SRRCET

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING & TECHNOLOGY is a technical institution promoted by **Sri Muthumari Educational Trust**, Established in the year 2010. The college is approved by All India Council of Technical Education (AICTE), New Delhi and is affiliated to Anna University, Chennai.

COURSES OFFERED

UG Programme

- B.E. Computer Science & Engineering
- B.E. Electronics & Communication Engg.
- B.E. Electrical & Electronics Engineering
- B.E. Mechanical Engineering
- B.E. Civil Engineering

PG Programme

- M.E. Computer Science & Engineering

THE DEPARTMENT

The Department of CSE was started in the year 2010 and offers B.E degree programme. The departments has various laboratories and well-qualified and experienced faculty. The departments have MOU signed with leading companies.

ABOUT THE CONFERENCE

- If you are planning to learn the robotics technologies and want to know that how to build them.
- This will give you a better understanding for the all concept.
- Better understanding the requirement for a specific technology.

ARTIFICIAL INTELLIGENCE:

Artificial intelligence (AI), the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings. The term is frequently applied to the project of developing systems endowed with the intellectual processes characteristic of humans, such as the ability to reason, discover meaning, generalize, or learn from past experience

ROBOTICS:

Robotics isan interdisciplinary branch of computer science and engineering. Robotics involves design, construction, operation, and use of robots. The goal of robotics is to design machines that can help and assist humans

CYBER SECURITY:

Cyber security is the practice of defending computers, servers, mobile devices, electronic systems, networks, and data from malicious attacks. It's also known as information technology security or electronic information security. The term applies in a variety of contexts, from business to mobile computing, and can be divided into a few common categories.

REGISTRATION FORM
RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, ROBOTICS & CYBER SECURITY

11th January, 2022

Name	:
Designation	:
Institution	:
Male/Female	:
Edu. Qualifications	:
Experience	:
Mailing Address	:
Phone	:
Fax	:
Email	:

Details of Registration fee

DD No.	:
Dated	:
Drawn on	:

Signature of Applicant

INAUGURAL ADDRESS

Mrs. Malagopal,
Founder & Director,
Kural Koodal Semozhi Foundation,
Houston, Texas, USA

PRESIDENTIAL ADDRESS

Dr.S.Subbiah,
Chairman & Advisor,
Sri Raaja Raajan College of Engg.&Tech.
Amaravathiputhur, Karaikudi.

****

RESOURCE PERSONS:

Mr.Adhigopal,
Chief Guest,
Dept. of CSE
University of Houston, Texas, USA

Mr.Lenasekhar,
Special Guest,
Founder & CEO
YAGEN ROBOTICS, Chennai

Dr.S.J.Sathish Aaron Joseph,
HoD of Computer Application,
J.J. College of Arts & Science,
Pudukottai.

STEERING COMMITTEE

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Chairman, Sri Raaja Raajan College of Engg.&Tech.

PATRONS
Dr.AL.MAYILVAHANAN,
Principal, Sri Raaja Raajan College of Engg.&Tech.

CONVENERS
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Head of the Department, CSE

COORDINATORS
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Assistant Professor, CSE

Mrs.V.MANJU, M.E.,
Assistant Professor, CSE

Ms.N.ANGAYARKANNI, M.E.,
Assistant Professor, CSE

REGISTRATION

Students(UG/PG)	: Rs.1000/-
Faculty	: Rs.500/-
Research Scholars	: Rs.700/-
Last Date for Registration	: 10.01.2022

INTERNATIONAL CONFERENCE

On

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, ROBOTICS & CYBER SECURITY

2021-22

11th January, 2022

Organized by
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE & Affiliated to Anna University)
Amaravadipudur, Karaikudi- 630301.
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SRI RAAJA RAAJAN

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University)

AMARAVATHIPUDUR, KARAIKUDI-630 301. SIVAGANGAI DIST.

DEPARTMENT OF COMPUTER SCIENCE

Organizes

International Conference on

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE ROBOTICS AND CYBER SECURITY

Date : 11th January 2022, 10.30 a.m.
Venue : College Campus Seminar Hall,

Presidential Address

Dr. S.SUBBIAH
Former Vice Chancellor,
Alagappa University, Karaikudi.

Inaugural Address

Mr.PANEER SEETHAPATHY,
Associate Director, Accenture,
Houston Texas, USA.

Chief Guest

Mrs. MALA GOPAL
Founder & Director
Kural Koodal Semmozhi Foundation,
Houston, Texas, USA

Special Guests

Mr. ADHI GOPAL
Department of Computer Science
University of Houston, Texas, USA

Mr. LENA SEKAR
Founder & CEO, Yagen Robotics, Chennai

Dr. S.J.SATHISH AARON JOSEPH
Head, Department of Computer Applications
JJ College, Pudukkottai

All are Cordially invited

AL.MAYILVAHANAN
Principal

International Conference on RTIAIRACS

Sri Raaja Raajan College of Engineering and Technology
Amaravathputhu Post, Karaikudi Tk

International Conference on Recent Trends in Artificial Intelligence, Robotics and Cyber Security

S. No.	First Author(s)	Second Author(s)	Designation / Course Studying	Institution	Title	Student / Scholar / Faculty
1	Meenatchi T *M.Sc., Computer Science, Department of Computer Science, Alagappa University, Karaikudi 630 003*	-	I M.Sc Computer Science			Student
2	Sathya K -Do-	-	I M.Sc Computer Science		Types of Cyber Security	Student
3	Abinaya M -Do-	-	I M.Sc Computer Science			Student
4	Sneha R Do-	-	I M.Sc Computer Science			Student
5	Aravinth S Do-	-	I M.Sc Computer Science			Student
6	Shree Chithambaram -Do-	-	I M.Sc Computer Science			Student
7	Swetha L Do-	-	I M.Sc Computer Science			Student
8	Priyadharshini P -Do-	-	I M.Sc Computer Science			Student
9	Mathumitha K -Do-	-	I M.Sc Computer Science		Challenges in Robotics	Student
10	Sivagurunathan K -Do-	-	I M.Sc Computer Science			Student
11	Swathilakshmi K -Do-	-	I M.Sc Computer Science			Student

S.No	Name			Course/Institution	Title	Role
12	Rajapandian A -Do-			I M.Sc Computer Science		Student
13	Vedhasri J -Do-	-	-	I M.Sc Computer Science	Artificial Neural Network	Student
14	Yuvasri R -Do-	-	-	I M.Sc Computer Science		Student
15	Rabeshna -Do-	-	-	I M.Sc Computer Science		Student
16	Palanikumar M -Do-		-	I M.Sc Computer Science		Student
17	Vetrivel K -Do-	-	-	I M.Sc Computer Science		Student
18	Shalini S -Do-	-	-	I M.Sc Computer Science	Artificial Intelligence Features	Student
19	Shanthi A -Do-	-	-	I M.Sc Computer Science		Student
20	Meena S -Do-	-	-	I M.Sc Computer Science		Student
21	Sudhaharan NS -Do-	-	-	I M.Sc Computer Science		Student
22	Manikandan.M -Do-	-	-	I M.Sc Computer Science		Student
23	Surya.S -Do-	-	-	I M.Sc Computer Science	Study On Artificial Intelligence Applications In Games	Student
24	Mohamed Jassim. M -Do-		-	I M.Sc Computer Science		Student
25	Hariharan.NS -Do-	-	-	I M.Sc Computer Science		Student
26	Rubina.S -Do-		-	I M.Sc Computer Science		Student
27	Kowsalya.C -Do-	-	-	I M.Sc Computer Science		Student
28	Janani.K -Do-	-	-	I M.Sc Computer Science	Empowering AI In Future Wireless Networks	Student

Department of Computer Science, Alagappa University, Karaikudi

No.	Name			Course		Topic	Role
29	Saranya Devi.P -Do-			I M.Sc Computer Science			Student
30	Sandhya.R -Do-			I M.Sc Computer Science			Student
31	Aiswarya Lakshmi.G -Do-			I M.Sc Computer Science			Student
32	Afrin Begum.RJ -Do-			I M.Sc Computer Science			Student
33	Keerthana.S -Do-			I M.Sc Computer Science		Survey On Service Robotics	Student
34	Yogeshwari.M -Do-			I M.Sc Computer Science			Student
35	Ranjani.J Do-			I M.Sc Computer Science			Student
36	Kaviya.V -Do-			I M.Sc Computer Science			Student
37	Bhuvaneswari.S -Do-			I M.Sc Computer Science			Student
38	Kanitha.M -Do-			I M.Sc Computer Science		Survey On Human System Interaction Using AI	Student
39	Rohini.T Do-			I M.Sc Computer Science			Student
40	Keerthana.S -Do-			I M.Sc Computer Science			Student
41	Ananth M R M.Sc., Information Technology, Department of Computational Logistics, Alagappa University, Karaikudi 630 003			I M.Sc Information Technology		Digitalization of Farm Land Security: An IoT Based Approach	Student
42	Siva K Do-			I M.Sc Information Technology			Student
43	Nithiyashri A -Do-			I M.Sc Information Technology			Student

44	Abarna B -Do-	-	Prof. Senthil Rajan Professor & Head, Department of Computational Logistics, Alagappa University, Karaikudi 630 003	I M.Sc Information Technology		Student
45	Durgadevi B -Do-			I M.Sc Information Technology		IoT based food quality monitor	Student
46	Asika P -Do-	-		I M.Sc Information Technology			Student
47	Mohamed Azarudeen S -Do-		-	I M.Sc Information Technology		IoT based laser security alarm	Student
48	Harihara Sudhan S -Do-		-	I M.Sc Information Technology			Student
49	Subraja R _II_ _M.Sc., Computer Science, Department of Computer Science, Alagappa University, Karaikudi 630 003_		Dr. Santhoshkumar _Assistant Professor, Department of Computer Science Alagappa University, Karaikudi_	II M.Sc Computer Science		IoT based Noise Pollution Monitoring System	Student
50	Nithya G _M. Phil Scholar, Department of Computer Science, Alagappa University, Karaikudi_		Dr. Santhoshkumar _Assistant Professor, Department of Computer Science Alagappa University, Karaikudi_	M.Phil Computer Science		Secure Healthcare System With Insurance Processing Using Blockchain	Student
51	Swathi Priya K -Do-	-	Dr. Santhoshkumar -Do-	M.Phil Computer Science		Deep Learning Techniques For Estimation Of Crop Yield	Student
52	Maheswari M -Do-		Dr. Santhoshkumar -Do-	M.Phil Computer Science		DNA Cryptography for Secure Data Communication Processing System	Student
53	C. Parvathi -Do-		Prof. Padmapriya Arumugam _Professor, Department of Computer Science, Alagappa University, Karaikudi_	M.Phil Computer Science		Prediction Of Student's Academic Performance By Hybridized Random Forest And Logistic Regression Algorithm	Student
54	N, Sanchiga Nandhini -Do-		Prof. Padmapriya Arumugam -Do-	M.Phil Computer Science		Banking With Digital Currencies Using Blockchain Technology	Student

Department of Computational Kara

uter Science, Alagappa University, Karaikudi

55	G. Kasthuri -Do-	Prof. Padmapriya Arumugam -Do-	M.Phil Computer Science	Department of Comp	Enhanced Data Privacy Using Vertical Fragmentation And Data Anonymization Techniques	Student
56	Uma R Research Scholar, Department of Computer Science Alagappa University Karaikudi	Dr. Santhoshkumar Assistant Professor, Department of Computer Science Alagappa University, Karaikudi	Ph.D Computer Science		Intelligent Method for prediction of Autoimmune Arthritis Disease using Machine Learning Algorithm	Scholar
57	J Arumai Ruban Research Scholar, Department of Computer Science Alagappa University Karaikudi	Dr. Santhoshkumar Assistant Professor, Department of Computer Science Alagappa University, Karaikudi	Ph.D Computer Science		A comparative study of the IOT drip irrigation system models	Scholar
58	Dr. C. Balakrishnan Associate Professor, Department of Computer Science CHRIST University Bengaluru, Karnataka- 560058	Dr. Santhoshkumar Assistant Professor, Department of Computer Science Alagappa University, Karaikudi	Assistant Professor	Department of Computer Science CHRIST University Bengaluru.	Efficient Conglomerate Ranked Search over Encrypted Mobile Cloud Data through Blind Storage	Faculty
59	Dr. R. Manimaran Assistant Professor & Head Department of Information Technology J.J.College of Arts and Science (Autonomous) Pudukkottai – 622 422	–	Assistant Professor	Department of Information Technology J.J.College of Arts and Science (Autonomous) Pudukkottai – 622 422	Road Traffic Accident Prediction Using Data Mining Classification Algorithms	Faculty

60	A.Sumathi *Department of Computer Science Engineering, SASTRA Deemed To be University, Srinivasa Ramanujan Centre (SRC), Kumbakonam*	**Dr. F. Kurus Malai Selvi** *Department of Computer Science Government College for Women Kumbakonam – 612001*	Assistant Professor		Classification and Regression Tree to predict and diagnosis the Liver disease and its subtypes	Faculty
		Dr. Santhoshkumar *Assistant Professor, Department of Computer Science Alagappa University, Karaikudi*				
61	**Ahamed Lebbe Hanees** *Head of the Department of Mathematical Sciences, & Senior Lecturer Grade- I in Computer Science, Faculty of Applied Sciences, South Eastern University of Sri Lanka, Sammanthurai, SRI LANKA*	**Dr. Santhoshkumar** *Assistant Professor, Department of Computer Science Alagappa University, Karaikudi*	Assistant Professor		DeepQ CNN Model for Flower Classification and Disease Prediction	Faculty
62	A.Sumathi Department of Computer Science Engineering, SASTRA Deemed To be University, Srinivasa Ramanujan Centre (SRC), Kumbakonam	**Dr. S. Meganathan** Department of Computer Science & Engineering SRC, SASTRA University Tamil Nadu, INDIA	Assistant Professor	-	Face Mask Detection Using Various Versions Of Yolo Object Detector	Faculty
		Dr. Santhoshkumar *Assistant Professor, Department of Computer Science Alagappa University, Karaikudi*	Assistant Professor	-		

PRINCIPAL
Sri Raaja Raajan College of Engg. & Tec'
Amaravathipudur, Karaikudi - 630 301
Sivagangai Dist, Tamil Nadu

INTERNATIONAL CONFERENCE

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, ROBOTICS AND CYBER SECURITY

International Conference on **Recent Trends in Artificial Intelligence, Robotics and Cyber Security** held on 11th January, 2022 at Sri Raaja Raajan College of Engineering and Technology, Amaravathiputhur, Karaikudi.

International Conference on Recent Trends in Artificial Intelligence, Robotics and Cyber Security organized by Department of Computer Science and Engineering, Sri Raaja Raajan College of Engineering and Technology. The International Conference was attended by Research scholars, Faculty members and students who included Chief Guests, HOD's Staff members and Students. The occasion was marked by Department of Computer Science and Engineering, The Principal of SRRCET Dr.AL.Mayilvahanan gave Welcome address and Mr.S.Aanjan Kumar, Assistant Professor, Department of CSE, in his inaugural address appraised the participants of the efforts taken by SRRCET in Computer Science and Engineering during the year and gave thematic presentation about the AI, Robotics and Cyber Security. **Chief Guest Mrs. Mala Gopal, Founder and Director, Kural Koodal Semmozhi Foundation, Houston, Texas, USA** inaugurate the conference. On Resource person address **Mr.Paneer Sethapathy, Associate Director, Accenture, Houston, Texas, USA**, motivates the students to involve in research in recent trends and Special Guest **Mr.Adhi Gopal, Univeristy of Houstan, Texas, USA**, gave presentation about Arfifical Intelligence and Resoure person **Mr.Lena Sekar, Founder & CEO, Yagen Robotics, Chennai** gave demonstration with different varieties of Robots. The person from research side **Dr.S.J.Sathish Aaron Joseph, Head, Department of Computer Applications, JJ College, Pudukkottai** gave presentation about recent researches in Cyber Security.

After that the session the certificates are distributed to those who are attended the International Conference. Finally Mr.S.Aanjan Kumar, Assistant Professor, Department of CSE gave vote of thanks.

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PRINCIPAL
Sri Raaja Raajan College of Engg. & Tec'
Amaravathipudur, Karaikudi - 630 30'
Sivagangai Dist. Tamil Nadu

SRI RAAJA RAAJAN
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(Approved by AICTE, New Delhi & Affiliated to Anna University)
AMARAVATHIPUDUR, KARAIKUDI-630 301. SIVAGANGAI DIST.

DEPARTMENT OF COMPUTER SCIENCE
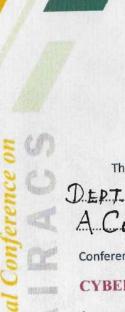
Organized

International Conference on

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE ROBOTICS AND CYBER SECURITY

Certificate

This is to certify that Prof./Dr./Mr./Ms. _Dr. R. MANIMARAN, HEAD &_

AP, JJ COLLEGE OF ARTS & SCIENCE Participated / Presented a paper entitled

ROAD TRAFFIC ACCIDENT PREDICTION USING DATA MINING at the International

Conference on **RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, ROBOTICS AND**

CYBER SECURITY organized by the Department of Computer Science & Engineering, SRRCET,

Amaravathipudur, Karaikudi, on 11th January, 2022.

CONVENER

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International Conference on

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE ROBOTICS AND CYBER SECURITY

Certificate

This is to certify that Prof./Dr./Mr./Ms. ...... ARUMAI RUBAN J, RESEARCH SCHOLAR DEPT. OF CSE, ALAGAPPA UNIVERSITY, KKDI ...... Participated / Presented a paper entitled A COMPARITIVE STUDY OF THE IOT DRIP IRRIGATION SYSTEM MODELS ...... at the International

Conference on **RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, ROBOTICS AND CYBER SECURITY** organized by the Department of Computer Science & Engineering, SRRCET, Amaravathipudur, Karaikudi, on 11th January, 2022.

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International Conference on RTAIRACS

SRI RAAJA RAAJAN

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AMARAVATHIPUDUR, KARAIKUDI-630 301 SIVAGANGAI DIST.

DEPARTMENT OF COMPUTER SCIENCE

Organized

International Conference on

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE ROBOTICS AND CYBER SECURITY

Certificate

This is to certify that Prof./Dr./Mr./Mrs. .... R UMA, RESEARCH SCHOLAR

INTELLIGENT METHOD FOR PREDICTION OF .... Participated / Presented a paper entitled

AUTOIMMUNE ARTHRITIS DISEASE USING MACHINE LEARNING ALGORITHM at the international

Conference on **RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, ROBOTICS AND**

CYBER SECURITY organised by the Department of Computer Science & Engineering, SRRCET,

Amaravathipudur, Karaikudi, on 13th January, 2022.

S. Ari Ku
CONVENER

PRINCIPAL

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DEPARTMENT OF COMPUTER SCIENCE

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International Conference on

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE ROBOTICS AND CYBER SECURITY

Certificate

This is to certify that Prof./Dr./Mr./Ms. C. BALAKRISHNAN

.... Participated / Presented a paper entitled

EFFICIENT CONGLOMERATE RANKED SEARCH OVER ENCRYPTED MOBILE CLOUD DATA at the International Conference on **RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, ROBOTICS AND CYBER SECURITY** organized by the Department of Computer Science & Engineering, SRRCET, Amaravathipudur, Karaikudi, on 11th January, 2022.

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INTERNATIONAL CONFERENCE

On

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE, ROBOTICS & CYBER SECURITY

R T I A I R A C S - 2022

11th January 2022

SOUVENIR

Organized by

Department of Computer Science and Engineering

<u>MESSAGE</u>

I am glad to know that the Department of Computer Science and Engineering of Sri Raaja Raajan College of Engineering and Technology, Karaikudi, is organizing a International Conference on the title **Recent Trends in Artificial Intelligence, Robotics and Cyber Security** on 11th January 2022. I feel that this International Conference would help students to have interactions with experts in the field of Computer Science to enhance their knowledge.

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

<div align="right">

Dr.S.Subbiah, Ph.D.,
Former Vice Chancellor,
Alagappa University, Karaikudi.

</div>

MESSAGE

It gives me immense pleasure to be a part of this hosting team of International Conference on Recent trends in Artificial Intelligence, Robotics and Cyber Security. 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 RTIAIRACS - 2022 team, I would like to thank all the authors, sponsors and keynote speakers for their support and co-operation.

Dr.AL.MAYILVAHANAN
Principal
SRRCET, Karaikudi

<u>MESSAGE</u>

I am extremely happy to know that a International Conference on the title **Recent Trends in Artificial Intelligence, Robotics and Cyber Security** is organized on 11th January 2022. I wish to congratulate the Computer Science Engineering Department for taking the effort in organizing the Conference.

I am confident that this event will help the students to update themselves on the latest happenings in their field of interest.

My best wishes for the International Conference.

Mrs.MalaGopal
Founder & Director
Kural Koodal Semmozhi Foundation,
Houston, Texas, USA

MESSAGE

I am happy to note that the Department of CSE is organizing a International Conference on **Recent Trends in Artificial Intelligence, Robotics and Cyber Security** on 11th January, 2022.

I am sure that this International conference will give an opportunity to the students of Computer Science and Engineering to interact with other students and faculty members, thereby furthering their knowledge.

I congratulate all the students and faculty members of the department in organizing this useful academic programme.

Mr.PANEER SEETHAPATHY,
Associate Director,
Accenture
Houston, Texas, USA

MESSAGE

Warm and Happy greeting to all. I am immensely happy that Department Computer Science is organizing a International Conference on 11th January, 2022 and is going to present a collection of various technical papers in the proceedings.

Under the guidance of Management, college continues to march on the way of success with confidence. Sharp, clear vision and precise decision making powers of management has benefited college to say competitive.

"Success is sweet. But the secret behind the success is sweat". So I take this opportunity to congratulate the HoD's, faculties and Students for their efforts to make this Conference a grand success.

Mr.ADHIGOPAL,
Department of CSE,
University of Houston,
Texas, USA

MESSAGE

It gives me immense pleasure that Sri Raaja Raajan College of Engineering is organizing an International Conference on Recent Trends in Artificial Intelligence, Robotics and Cyber Security (RTIAIRACS) on 11th January, 2022. It provides an opportunity for meeting of International Researchers, Engineers, Scientists and specialists in the various research and development fields of Engineering and Technology.

The conference offers a premise for global experts to gather and interact intensively on the topics of Computer Science and Information Technology. I hope eminent speakers will cover the theme from different perspectives. I am privileged to say that this conference will definitely offer suitable solutions to the global issues. Eventually I express my special thanks and appreciation to all. I wish (RTIAIRACS 2023) all the best for its success.

Mr.LENASEKAR,
Founder & CEO,
YAGEN ROBOTICS,
Chennai.

MESSAGE

I am pleased to welcome you all for the International Conference on Recent trends in Artificial Intelligence, Robotics and Cyber Security by Sri Raaja Raajan College of Engineering and Technology, Karaikudi is a camouflage wealth of knowledge, innovation and technology that lies within, itself is a niche of opportunities to all aspiring engineers and researchers.

The events in the conference are targeted towards researchers, practitioners, professionals, educators and students to share their experience, innovative ideas, issues, recent trends and future directions in field of Engineering and Science and Technology.

In a nutshell, the conference promises to transcend to a new and unprecedented level of excellence. It is thus the zenith where technology and skill meets opportunities and guidance. It is a milestone that one would not dare to miss. I wish RTIAIRACS 2023 a grand success.

Dr. SJ. SATHISH AARON JOSEPH,
HoD of Computer Application,
JJ College, Pudukkottai

MESSAGE

My warm wishes and greetings to all of you,

The International 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 Advisor, **"Dr.S.Subbiah.,** Principal **Dr.AL.MAYILVAHANAN, M.E.,Ph.D.,** for extended support to organize this symposium.

I whole heartedly thank all the staff members and students of Computer Science & Engineering for their cooperation and support for making this symposium 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"

Mr. S. AANJAN KUMAR, M.E.,
Head of the Department
COMPUTER SCIENCE & ENGINEERING

PREDICTION OF STUDENT'S ACADEMIC PERFORMANCE BY HYBRIDIZED RANDOM FOREST AND LOGISTIC REGRESSION ALGORITHM

C. Parvathi[1], Prof. Padmapriya Arumugam[2]
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[2]Professor, padmapriyaa@alagappauniversity.ac.in
Department of Computer Science
Alagappa University
Karaikudi

ABSTRACT

The vital aim of this research is to predict the student's academic performance. Predicting student's academic performance helps the teachers or faculty members to guide students and pay necessary attention on their studies according to their performance. Also, this research helps the students to improve more on their academic performance and they can take necessary steps to improve their performance in lacking area. Student's academic dataset analysis, feature extraction, classification and prediction are performed with the help of python and machine learning libraries. Most appropriate two machine learning algorithms are hybridized to create a new model to predict the student's academic performance. Attained results proved that the new proposed hybrid model improved the accuracy than existing machine learning mechanism.

Keywords: Students Academic performance, Machine Learning, Hybrid Model, Python, Prediction

FACE MASK DETECTION USING VARIOUS VERSIONS OF YOLO OBJECT DETECTOR

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Abstract

Object detection algorithms are often used to detect large numbers of objects in a real-time environment. YOLO (You Only Look Once) is one of the algorithms used to find objects. This algorithm has a high range of MAP (Mean Average Precision) score than compared to other detectors. The Accuracy rate and the processing FPS of YOLO Detectors are also high. A Custom dataset has built by collecting a large number of images from various sources and then images were annotated before training the detector on the dataset. The COVID pandemic has led to a global health crisis. Coronavirus spreads mainly through nasal discharge when an infected person coughs or sneezes. So, every individual needs to take precautionary measures such as wearing a face mask. Still, some people do not follow the guidelines and go to public places without wearing a face mask.This work uses YOLO detector on the custom dataset and built a model that is used for detecting whether a person is wearing a face mask or not in a real-time environment.The proposed model is trained on a large number of images (with and without a mask). The dataset is initially categorized into three sets namely Testing Dataset, Training Dataset and Validation Dataset. The model is trained with the images in the Training Dataset and then its performance is evaluated. The training Dataset nearly consists of 700 images with and without a mask. The predictions made by the trained model are tested against the confidence score and the weaker predictions are suppressed. This model can be used to detect individuals who are not wearing a face mask in a real-time environment with an alert system using various versions of YOLO algorithms and also its performance analysis on mask detection.

Keywords—Deep Learning, Yolo Detector, Computer Vision, Darknet.

ENHANCED DATA PRIVACY USING VERTICAL FRAGMENTATION AND DATA ANONYMIZATION TECHNIQUES

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ABSTRACT

The use of online banking has significantly increased because of the rapid progress of electronic commerce technologies. Virtual and physical cards are used in online banking to make purchases of goods and services, with virtual cards being used for online transactions and actual cards being used for offline transactions. Cashless shopping is made possible through net banking. It will be the most practical way to do internet business, pay bills, etc. which is quickly becoming the most common method of payment for both regular and online purchases. Attackers simply require a small amount of information to conduct fraudulent transactions in the online payment mode (secure code, card number, expiration date etc.). Most transactions in this buying technique will take place over the mobile phone or the Internet. A fraudster only needs to be aware of the card information to make these types of purchases fraudulently. Much of the time, the legitimate cardholder is unaware that his/her card information has been viewed or stolen. Consequently, there are also rising dangers of fraud transactions using banking information. Fraudulent transactions will be identified in the current cyber security system after the transaction has been completed. It is challenging to identify fraud because the issuing agencies will not allow losses. We can overcome this by using a vertical level server architecture to divide the intermediary gateway and boost security. Transaction details are divided and kept in primary and secondary servers as sensitive attributes. To overcome the pitfalls of the conventional cryptography techniques, data suppression scheme that transforms string and number characters into special symbols should be designed.