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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TOP NEWS

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NEXTGEN NEWS November 2024

Staff Workshop

The Department of Computer Science and Engineering proudly hosted a **3-Day Staff Workshop on IT4651 - Big Data Analytics from 21ᵗʰ to 23ᵗʰ November 2024**. This workshop provided an enriching platform for our faculty to delve deep into the theoretical and practical aspects of Big Data Analytics. With sessions covering tools like Hadoop, Spark, and Python libraries, along with expert talks and hands-on training, the event aimed to bridge the gap between academics and industry trends. A huge thank you to our resource person Nareshkumar Perumalsamy, Mr. P. Naresh Kumar, M.B.A., M. Tech, Data Engineer, Data Scientist, Gainwell Technologies, participants, and organizers for making this event a success! Together, we are shaping the future of education and innovation.

Highlights:

❖ **Hands-on practical sessions in data analysis and visualization**

❖ **Interactive discussions on curriculum design**

❖ **Expert talks blending academic and industry insights**

Professional Chapter Activity - IEEE Computer society

The Department of Computer Science and Engineering and IEEE Computer Society, Madras jointly organised a one day in-person IEEE CS Day event on the theme "Trends in UI/UX Design" on 7th November 2024 from 8.00 a.m. to 3.00 p.m at AV Hall-3. It is the EIGHTH in the series of one day in-person IEEE CS Day events with earlier ones been held at Infosys Chennai, SSN College of Engineering Chennai, SA Engineering College Chennai, SETS Chennai, KPR Inst of Engineering & Tech Coimbatore, Panimalar Institute of Tech, Chennai & KARE, Krishnankoil. The event started with a brief inaugural session in which Principal Dr S Arivazhagan and Dean Dr Sreekumar participated and thanked IEEE CS for hosting the IEEE CS Day at SJIT and desired and volunteered to host more events with the support of IEEE CS Madras.

Professional Chapter Activity – IEI Student Chapter

The Department of Computer Science and Engineering in association with The Institution of Engineers (India) [IEI] student chapter conducted Technical Quiz using Kahoot and Quiz on "Tech Trez" for the IEI members of II year on 08th November 2024 and this event provides numerous benefits and opportunities for participants, organizers, and stakeholders.

Prizes Received during the event:

1st Prize - MohanRaj G and Prajin Kumar P

2nd Prize - Nithish M and Marcus Franklin

3rd Prize - R.Praveen and M.V.Nitin Kumar
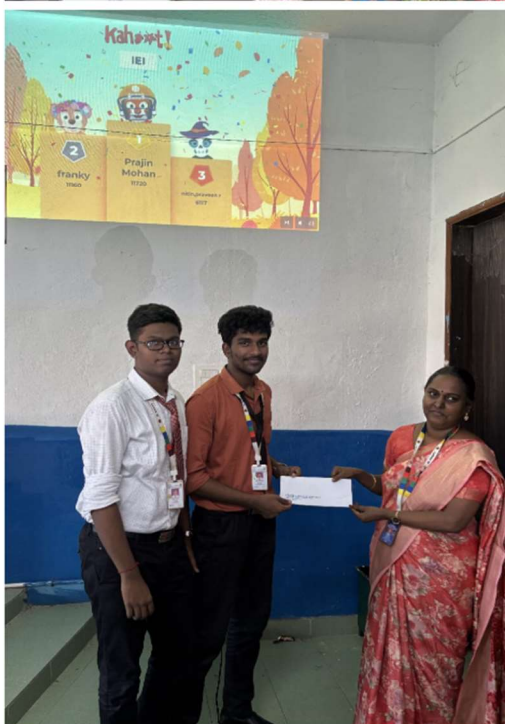
Club Activity – TechnoHub Club

The Department of Computer Science and Engineering in association with the TechnoHub Club was organized a "CRAKING THE TECH INTERVIEW" session on 6th November 2024. The event, scheduled from 10:30 AM to 11:30 AM at CSE Lab 1. This session led by Subiksha MS, Software engineer, Congnizant Technology solution, Chennai, focused on providing club members to students with an interactive and learning experience in Creaking the tech interview in leading IT companies. Participants had the opportunity to gain exposure to essential insider tips to land in your dream IT jobs.

Club Activity - GLUG club

The Department of Computer Science and Engineering, in collaboration with GLUG club conducted a seminar for Second year CSE Glug club members on the topic of "CODELESS WEBSITE DEVELOPMENT IN WORDPRESS" on 8th November 2024. The event, scheduled from 09.40 AM to 11:00 AM at AV Hall. This session was handled by Dr. V. Angel Pertricia, Assistant Professor, Department of Computer Science and Engineering. This session provided the clear insight of flutter for website development using WordPress Technology. In addition, the students gain knowledge and explores how WordPress empowers users to create fully functional, professional websites without the need for programming knowledge. It examines the tools, plugins, and themes that facilitate drag-and-drop functionality and customization, making website creation accessible to non-technical users.
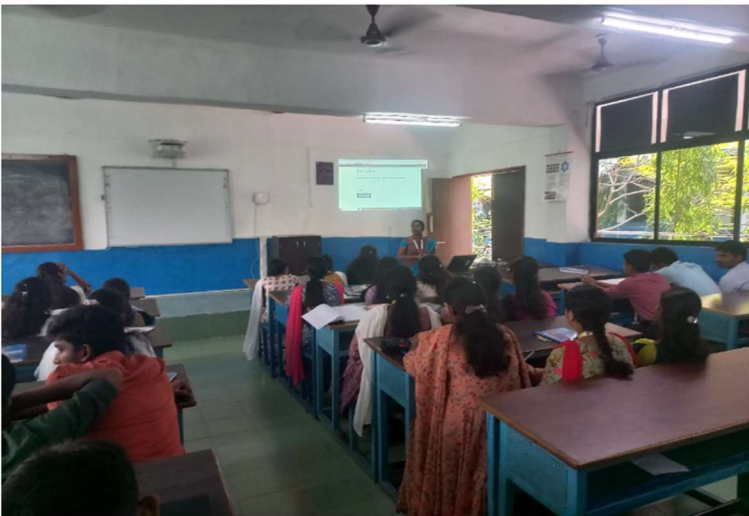
Workshop – School Students

A workshop on "Machine Learning Algorithms" was conducted for Class XI students of MAV Vidyashram by Dr. N. Mythili and Mrs. K. Jaspin on 8th November 2024, distinguished faculty members from St. Joseph's Institute of Technology. The workshop aimed to introduce students to the fundamental concepts of machine learning, emphasizing the importance of understanding algorithms in modern technology. The workshop began with a brief introduction to machine learning, its applications, and how it is transforming various industries. Dr. N. Mythili explained the relevance of machine learning in today's world, illustrating how it plays a role in technologies such as recommendation systems, image and speech recognition, and even autonomous vehicles. Mrs. K. Jaspin followed with an overview of different types of machine learning algorithms, such as supervised, unsupervised, and reinforcement learning. She gave examples of each type, providing students with real-world contexts in which these algorithms are used.
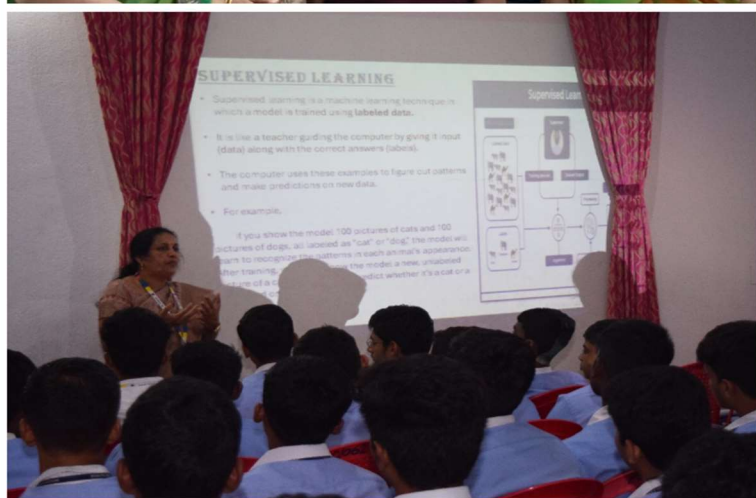
Faculty Achievements – FDP (Physical Mode)

1. Mrs. S.Revathy has participated one week Faculty Development Programme on "Saleforce Platform Developer - I", Organized by ICTACADEMY at Sathyabama Institute of Science and Technology, Chennai on 11-11-2024 to 15-11-2024.

2. Mrs. R. Karthiga has participated one week Faculty Development Programme on "Gamification Strategies for Gen Z Learners", Organized by ATAL at Jeppiaar college of Arts and Science, Chennai on 11/11/2024 - 16/11/2024.

3. Mrs.Shanker Shalin has participated one week Faculty Development Programme on "Gamification Strategies for Gen Z Learners", Organized by ATAL at Jeppiaar college of Arts and Science, Chennai on 11/11/2024 - 16/11/2024.

Faculty Achievements – SCOPUS Journal Publication

1. Mrs U.Surya published a paper titled " Cramer Distance: A Deep Learning Approach for Better Epileptic Seizure Prediction", in the International Journal of Machine and Computing, November 2024.

2. Mrs R.Vasanti published a paper titled " Clustering-assisted privacy perseveration model for data mining", in the International Journal of Ad Hoc and Ubiquitous Computing, November 2024.

3. Mrs A.Vani Lavanya published a paper titled " Analyzing the Impact of Scientific and Technological Innovations on Financial Performance: A PCA-Based Study of an AI Healthcare Startup", in the International Journal of Journal of Machine and Computing, November 2024.

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Home → International Journal of Ad Hoc and Ubiquitous Computing → Vol. 47, No. 2

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Clustering-assisted privacy perseveration model for data mining

S. Mohana, T.M. Nithya, Sardar Khan Nikkath Bushra, Ramakrishnan Vasanthi, K.S. Guruprakash and Sudha Rajesh

Published Online: 3 Oct 2024

📄 PDF ⬇   📄 Abstract & Keywords   🔧 Tools   ⬚ Share

Abstract

Data mining techniques are used to examine the data in order to reveal hidden patterns. While preserving the privacy of individual records, privacy preserving data mining (PPDM) technology enables us to extract meaningful information from massive volumes of data. This paper proposes the two stages of the privacy preservation are data sanitisation and data restoration. The clustering, key generation and key pruning elements of the data sanitisation process are all carried out in a distributed environment. The key is pruned using the deep maxout model to make any last modifications after being formed

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Analyzing the Impact of Scientific and Technological Innovations on Financial Performance: A PCA-Based Study of an AI Healthcare Startup

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[2]Department of Computer Science, College of Computer Science and Information Technology, University of Kerbala, Karbala, Iraq.
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Journal

Journal of Machine and Computing

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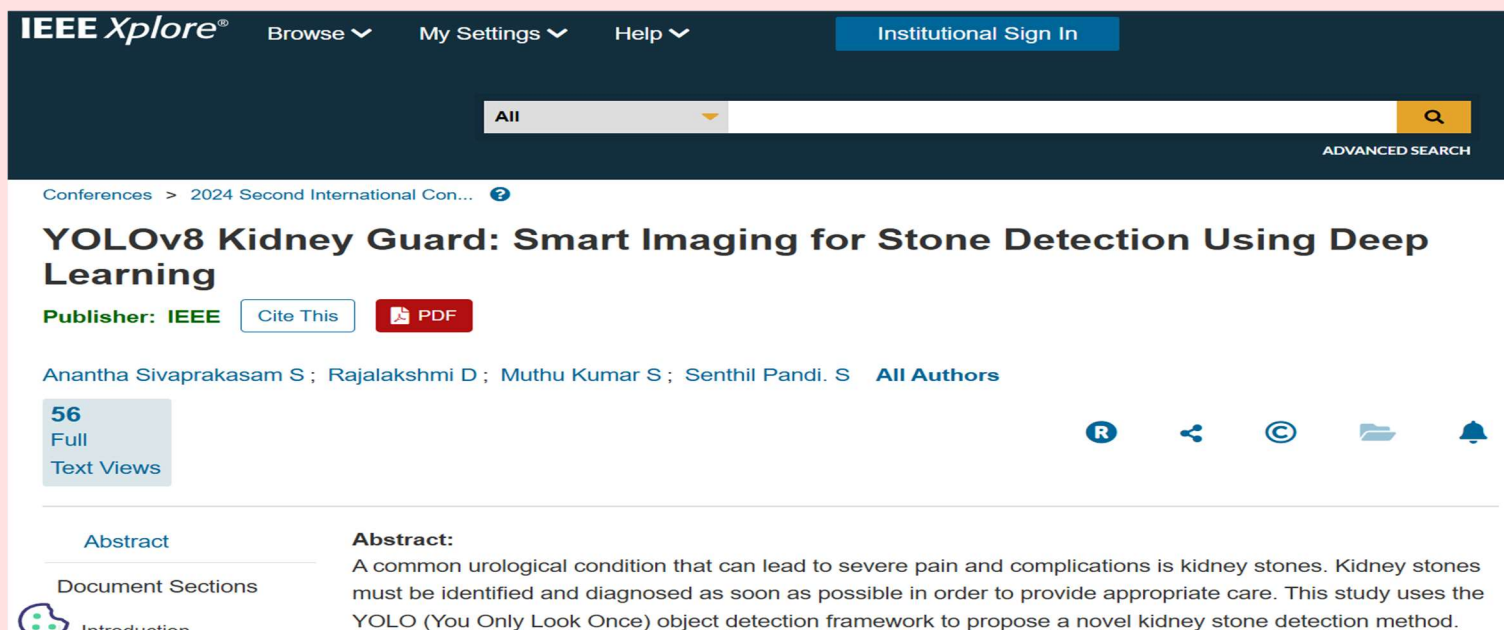ISSN (Print) : 2789-1801

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JOURNAL OVERVIEW

ARTICLES

Journal of Machine and Computing

Cramer Distance: A Deep Learning Approach for Better Epileptic Seizure Prediction

Hayder M A Ghanimi ✉ | Santhi Sri T ✉ | Vijaya Bhaskar Sadu ✉ | Pachipala Yellamma ✉ | Surya U ✉ | Kamal Poon ✉

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n/a   Relative Citation Ratio

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Article Views
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Faculty Achievements – SCOPUS indexed Conference

1. Mrs. E. Ajitha Present a titled " Detection of False Replication of Digital Copy Using Hog and SVM Classification", in International Conference on Deep Sciences for Computing and Communications on April 2024, indexed in Springer Nature Link on November 2024.

2. Mr S. MuthuKumar Present a titled " YOLOv8 Kidney Guard: Smart Imaging for Stone Detection Using Deep Learning", in 2nd IEEE International Conference on Advances in Information Technology, ICAIT 2024 on April 2024, indexed in IEEE Explore on November 2024

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YOLOv8 Kidney Guard: Smart Imaging for Stone Detection Using Deep Learning

Publisher: IEEE   Cite This   📄 PDF

Anantha Sivaprakasam S ; Rajalakshmi D ; Muthu Kumar S ; Senthil Pandi. S   **All Authors**

56 Full Text Views

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Abstract

Document Sections

Introduction

Abstract:
A common urological condition that can lead to severe pain and complications is kidney stones. Kidney stones must be identified and diagnosed as soon as possible in order to provide appropriate care. This study uses the YOLO (You Only Look Once) object detection framework to propose a novel kidney stone detection method.

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Home > Deep Sciences for Computing and Communications > Conference paper

Detection of False Replication of Digital Copy Using Hog and SVM Classification

Conference paper | First Online: 29 September 2024
pp 137–147 | Cite this conference paper

E. Ajitha ✉ , B. Diwan, K. Jaspin, V. Suvetha & S. Sahasra

📖 **Part of the book series:** Communications in Computer and Information Science ((CCIS,volume 2177))

Faculty Achievements – Patent Publication

1. Mr.A.Balamurali has published a patent titled "OPTIMIZING EV CHARGING STATION OPERATIONS USING IOT, CLOUD COMPUTING, AND MACHINE LEARNING FOR ECO-FRIENDLY TRANSPORTATION" with application number 202411076396 on 18th October 2024.

2. Mrs.M.V.Ezhil Dyana has published a patent titled "DETECTION OF CRIME SCENE OBJECTS FOR EVIDENCE ANALYSIS USING DEEP LEARNING TECHNIQUES" with application number 202441078753 on 25th October 2024.

3. Ms.U.Surya has published a patent titled "BLOCKCHAIN-ENHANCED ADAPTIVE CONTROL AND FAULT DETECTION IN IIOT DRIVEN SMART FACTORIES" with application number 202441080820 on 01st November 2024.

4. Dr. Adlin Sheeba has published a patent titled "ARTIFICIAL INTELLIGENCE-DRIVEN CONTROL SYSTEM FOR HIGH VOLTAGE GAIN BLDC MOTORS WITH OPTIMIZED DUTY CYCLE IN ELECTRIC VEHICLES" with application number 202421080460 on 23rd November 2024.

5. Ms.K.Sherin has published a patent titled "MACHINE LEARNING-BASED SYSTEM FOR AUTOMATED DIAGNOSIS OF SKIN CANCER USING DERMOSCOPIC IMAGES" with application number 202441084169 on 15th November 2024.

Faculty Achievements – NPTEL Certification

S.NO	Faculty Name	Course Name	Grade
1	Dr.J.Dafni Rose	Design thinking – A Primer	Elite + Sliver
2	Dr.L.SaiRamesh	Design thinking – A Primer	Elite
3	Mrs.M.Ramya	Introduction to machine Learning	Successfully completed
4	Mr.Sundarababu Maddu	Python for Data Science	Elite
5	Mr. S.Muthukumar	Introduction to machine Learning	Elite
6	Mrs. S.M.Keerthana	Introduction to machine Learning	Elite Sliver + 5 % Topper
7	Mr. S. Janagiraman	Demystifying Networking	Successfully completed
8	Mrs. M. V. Ezhil Dyana	Introduction to machine Learning	Elite
9	Mr. S. Muthukumar	Python for Data Science	Elite
10	Mrs. Shanker shalini	Big Data Computing	Elite
11	Mrs. E Ajitha	Data Structure and Algorithms	Elite
12	Mrs. JASPIN K	Data Structure and Algorithms	Elite + Silver
13	Mrs. C A SUBASINI	Ethics in Engineering Practice	Successfully completed
14	Mrs. JASPIN K	Software Engineering	Elite Sliver + 5 % Topper
15	Mrs. Revathy S	Digital Image Processing	Successfully completed
16	Mrs. Ranganayaki VC	Software Conceptual Design	Elite + Silver
17	Mrs. Revathy S	Reinforcement Learning	Successfully completed
18	Ms. SHERIN K	Programming in Java	Successfully completed
19	Dr. V Sabaresan	Programming in Java	Elite Sliver + 5 % Topper
20	Dr. MENAGA D	Introduction to Machine Learning	Successfully completed
21	Mrs. VANI LAVANYA	Introduction to Machine Learning	Successfully completed
22	Mrs. Vasanthi R	Research Methodology	Successfully completed
23	Dr N MYTHILI	Introduction to Machine Learning	Successfully completed

Faculty Achievements – NPTEL Certification

3 Faculty members awarded 5 % Topper in October/September NPTEL Exams

6 Faculty members awarded Elite + Sliver grade in October/September NPTEL Exams

7 Faculty members awarded Elite grade in October/September NPTEL Exams

10 Faculty members Successfully completed in October/September NPTEL Exams

Student Achievements – NPTEL Certification

3 Students awarded 1 % Topper in October/September NPTEL Exams

4 Students awarded 2 % Topper in October/September NPTEL Exams

9 Students awarded 5 % Topper grade in October/September NPTEL Exams

4 Students awarded Elite + gold grade in October/September NPTEL Exams

35 Students awarded Elite + Silver grade in October/September NPTEL Exams

163 Students awarded Elite grade in October/September NPTEL Exams

190 Students Successfully completed in October/September NPTEL Exams

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BENNY ISRAEL J

CHRISTINA MICHELLE RAYAN

HEMALATHA J

LEMI DEBORAH SOLOMON SURESH

PRIYANKA S

SAHITHYA SHRE H

SETHULAKSHMANAN SP

SIVAGANESH N

SRINITHI B

SWETHA P

VIGRAM K M

YOGESHWARAN S

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AKSHAY A

ANNLYN BRIGHT

ASHIBHA S

BENNY ISRAEL J

POOJITHA BOYIDI

DURAIMADHAVAN K R

P. EUGINE CARMEL

HARIS JAI SOORYA V

JANALYN MAROULA L

JESWI NIHIDHA E

MOHAMMED SHAHID

MUNTAZIR FAYAZ WANI

MUTHUKUMARAN S

RAMITH JAGATHESE J

RAZLINA JOAN S J

SUTHARSHANAGAYATHRI US

Infosys

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CTC-3.6 LPA