KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE,WARANGAL

(Accredited by NAAC with 'A' Grade)

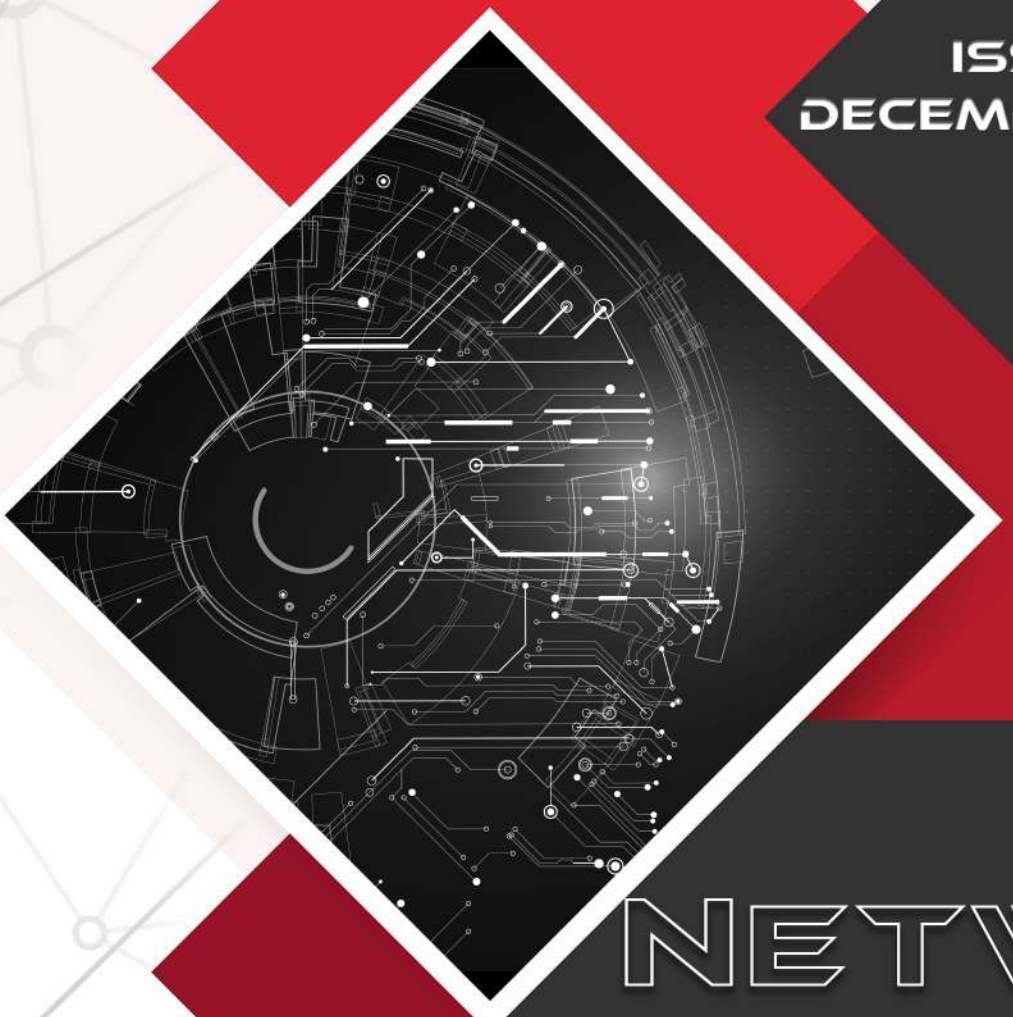
(An Autonomous Institute under Kakatiya University)

Estd-1980

KITSW

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Networks)

PRESENTS A TECHNICAL MAGAZINE



ISSUE:
DECEMBER 2022

NETWORX

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PRINCIPAL MESSAGE

It gives me immense pleasure that the department of Computer Science and Engineering(Networks) is coming up with their first issue of magazine "NetworX". I appreciate the enthusiastic effort made by the editorial board,staff and students to bring out this issue and all the hard work they put in. We believe in working hard to foster a culture that is always focussed on doing what is best for students and ensuring that they have a positive Educational Experience that will transform them into good engineer and good human beings.

HOD MESSAGE

We are Elated to release the first issue of Magazine of Department of Computer Science and Engineering(Networks) , December 2022. In our Magazine we periodically publish all the important events activity of the faculty and students. The unique feature of this magazine is that its designed and developed by our students. I thank all contributors including faculty, staff members and students for their valuable inputs.

DEPARTMENT PROFILE

The Department of Computer Science and Engineering(Networks), which has a fine blend of renowned as well as experienced and dynamic personalities as faculty, is involved in providing quality education at both Undergraduate (UG). The syllabus of the courses are continuously updated and the laboratories modernized to reflect the rapid changes in technology and Industries. It also offers high quality research in the Doctoral programs. The Department has strong Industry interaction and has been involved in development of state-of-art products for Industry. It has extensive fabrication, calibration and testing facilities for carrying out industry sponsored research and consultancy projects. The Department offering 3 Branches for B.tech Computer Science and Engineering (AL&ML), Department of computer science and Engineering (Network), Department of computer science and Engineering (IoT).

VISION AND MISSION OF DEPARTMENT

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE , WARANGAL
(An Autonomous Institute under Kakatiya University,Warangal)
(Accredited by NAAC with 'A' Grade)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Networks)

VISION

Attaining centre of excellence status in various fields of Computer Science and Engineering (Networks) by offering worth full education, training and research to improve quality of software services for ever growing needs of the industry and society.

MISSION

- Practice qualitative approach and standards to provide students better understanding and profound knowledge in the fundamentals and concepts of computer science with its allied disciplines.

- Motivate students in continuous learning to enhance their technical, communicational, and managerial skills to make them competent and cope with the latest trends, technologies, and improvements in computer science to have a successful career with professional ethics.

- Involve students in analyze, design and experimenting with contemporary research problems in computer science to impact socio-economic, political and environmental aspects of the globe.

Program Outcomes (POs): B.Tech

PO1:Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2:Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and enginering sciences.

PO3:Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4:Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5:Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern enginerring and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6:The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issuesand the consequent responsibilities relevant to the professional engineering practice.

PO7:Environment and sustainability : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8:Ethics: Apply ethical principles and commit to professional ethics and repsonsibilities and norms of the engineering practice.

PO9:Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10:Communication: Comunicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations,and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the enginering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidiciplinary environments.

PO12:Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Educational Objectives (PEOs): B.Tech

PEO1: Technical Expertise, apply the fundamental knowledge of the core courses of computer science and networks for developing the effective software and network technology solutions

PEO2: Successful Career excel in profession, higher education and entrepreneurship with updated technologies in software, computer networks and security based domains

PEO3: Soft Skills and Life Long Learning, exhibit professional ethics, effective communication and team work in solving engineering problems by adapting contemporary research towards sustainable development of society

Program Specific Outcomes (PSOs): B.Tech

PSO1

Apply the fundamental knowledge of computer science and engineering in developing effective software for real world complex engineering problems adapting advanced technologies

PSO2

Design computer networks protocols and configure solutions for various network applications using contemporary hardware and software tools

PSO3

Implement effective securities standards and investigate efficiency of existing security measures by continuous adaptation of latest updates in cyber security domains

LIST OF FACULTY

Department of Computer Science & Engineering(Networks)

Head of the Department
(w.e.f: 05.01.2022)

Dr. S.Narasimha Reddy
Associate Professor

S.NO	Name	Qualification (specialization)	Designation / Affiliation	Research Area
1.	Dr. V.Shankar	Ph.D.	Professor	Data Mining
2.	Dr. S.Narasimha Reddy	Ph.D.	Associate Professor & Head	Computer Vision and Image Processing (AI & ML)
3.	Dr. Jothi Prabha Appadurai	Ph.D.	Associate Professor	Machine Learning and Deep Learning
4.	Dr. V.Swathy	Ph.D.	Associate Professor	Software Engineering
5.	Sri B.Srinivas	M.Tech., (Ph.D.)	Assistant Professor	Big Data Analytics
6.	Sri B.Hanmanthu	M.Tech., (Ph.D.)	Assistant Professor	Data Analytics
7.	Sri I.Sai Ram Krishna	M.Tech., (Ph.D.)	Assistant Professor	Natural Language Processing
8.	Dr. Kumar Dorthi	Ph.D.	Assistant Professor	Wireless Sensor Network
9.	Dr. S.Kiran	Ph.D.	Assistant Professor	Internet of Things
10.	Smt. Amdewar Godavari Ramlu	M.Tech.,(Ph.D)	Assistant Professor	Cloud Computing, Distributed Systems

LIST OF FACULTY

S.NO	Name	Qualification (specialization)	Designation / Affiliation	Research Area
11.	Smt. R.Swetha	M.Tech.(CSE)	Assistant Professor	Machine learning
12.	Sri. D.Ramesh	M.Tech. (CSE)	Assistant Professor	Data Science, IoT, Networks
13.	Smt. E.Rajitha	M.Tech.	Assistant Professor	Computer Science & Engineering
14.	Ms. E.Vishnu Priya Reddy	M.Tech., (Ph.D)	Assistant Professor	Internet of Things, Deep Learning
15.	Ms. S.Divya	M.Tech.	Assistant Professor	Machine Learning, Data Science, Internet of Things(IoT)
16.	Ms. Md. Safia	M.Tech.	Assistant Professor	Machine Learning, Data Science, Internet of Things(IoT)
17.	Ms. M.Hithasri	M.Tech.	Assistant Professor	Machine Learning, Data Science, Internet of Things(IoT)
18.	Mrs. T.Anusha	M.Tech.	Assistant Professor	Machine Learning, Data Science, Internet of Things(IoT)
19.	Mrs. T.Shruthi	M.Tech.	Assistant Professor	Network Security, Internet of Things(IoT)
20.	Mrs. K.Shirisha	M.Tech.	Assistant Professor	Network Security, Internet of Things(IoT)
21.	Dr. M.Srinivas	Ph.D.	Assistant Professor	Wireless Sensor Networks
22.	Mrs. D.Haritha	M.Tech.	Assistant Professor	Network Security, Internet of Things(IoT)

REPORT ON FACULTY DEVELOPMENT PROGRAMME ON ARTIFICIAL INTELLIGENCE FOR COMPUTER VISION AND IMAGE PROCESSING

The Faculty Development Program aims at providing strong theoretical background of Artificial Intelligence and its applications in the field of Medical Image Processing. Computer vision is a field of artificial intelligence that works on enabling computers to see, identify and process images in the same way that human vision does, and then provide the appropriate output. This FDP introduced various AI & ML algorithms and research strategies to be adopted for effective & efficient processing of medical images through computer vision.

The FDP was attended by 81 participants from faculty members and research scholars in and outside the institution. External participants were from various reputed institutions and universities such as NITW, VIT University, SRM University, Satyabhama University, Kakatiya University, Osmania University, CBIT, GNITS. We have two international participants from Peshawar, Pakistan.

Inaugural Session: 10 AM to 12 PM (Jun 6th 2022)

On this occasion, the chief guest Dr. Divvela Mohandas Garu, Principal, Kakatiya Medical College, Warangal and Additional. DME, Warangal said that we must keep learning till our last breath. He motivated the participants to update and adapt themselves to the latest trends and technologies to meet the needs of ever-changing industry. On this august gathering, the Guest of Honor "Prof.T.K.K Naidu, MD (Forensic Medicine) LLB, Professor & Head, Dept. of Forensic Medicine, Vice Principal, Prathima Institute of Medical Sciences, Karimnagar, addressed the gathering and gave insights into the benefits of integration of Artificial Intelligence in Health care. He also gave a key note address to the participants of FDP on "Artificial Intelligence for Healthcare".

The Coordinator of this FDP Prof. T. Kishore Kumar, Professor, Dept of ECE, NITW gave insights into the objectives and outcomes of the FDP.

During the presidential remarks, Principal, Prof K. Ashoka Reddy said that this kind of FDPs will be helpful in implementing multidisciplinary and holistic education where medical and engineering come closer to solve real time problems using Artificial Intelligence.

Head of the Department, CSE- Networks Soora Narasimha Reddy and Prof. V.Shankar said that this FDP will help the participants to understand the importance of AI in solving real world problems.

TECHNICAL SESSIONS:

Two technical sessions were conducted daily. Eminent speakers from IIT's NIT's and other reputed universities, institutions and industry persons shared their knowledge through their expert lectures. Few to mention are Prof. Ram Mohana Reddy G, Senior Professor ,NIT surathkal, Prof. Mahadeva Prasanna from IIT Dharwad, Prof. Sumohana S. Channappayya, IIT Hyderabad, Prof.T.Kishore Kumar, Prof . Sriram.G.Sanjeevi from NITW, Prof. Ashoka Reddy,

Principal KITSW, Prof. S.Geetha, Associate Dean,VIT University, Mr.Deepan Raj, Lead Data Scientist, HCL Technologies, Dr.Mohanraj Vengadachalam, Machine Learning Lead, Standard Chartered GBS, Chennai and Dr.Sanjeev Kubakaddi, Founder, ITIE Knowledge Solutions, Bengaluru. I would like to extend my thanks to all the speakers for sharing your knowledge with us on this platform

FDP OUTCOMES: All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This FDP allowed robust collaborations between AI researchers and health practitioners to discuss on socio-technological challenges and come up with state-of-the-art technology directions in the interdisciplinary field of engineering and medicine.


"Artificial Intelligence for Computer
Vision and Image Processing"
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
KITSW
WARANGAL

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE WARANGAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)
SUMSHODHINI'22 (18 – 19, November, 2022)
CATALOGUE OF TECHNICAL EVENTS

Dr. S. Narasimha Reddy
Professor & Head, Dept. of CSN

Sri D. Ramesh
Faculty Coordinator, Shumshodhini'2022

Dr. Kumar Dorthi
Faculty Coordinator, Shumshodhini'22

Date of condition:18&19 Nov, 2022

1. WORKSHOP ON ETHICAL HACKING:

Department of computer science and engineering (networks) presents you the workshop-"ETHICAL HACKING", in association with the ISTE Students' Chapter and Technical Club, KITSW.

2. PAPER PRESENTATION:

Paper presentation enhance participants ability to create papers, to develop their creativity, build their confidence and courage to deliver the ideas to public. Here you guys have an excellent opportunity to express the idea and overcome the fear and will be habituated for the stage and express your thoughts.

ROUND 1 : SUBMIT PPT

Submit the ppt in the registration form. Based on score card elimination is done

ROUND 2: THEME PPT

Themes will be displayed and participants should choose any one interesting theme. Find the research paper and prepare PPT and present it within allocated time.

3. POSTER PRESENTATION:

This event consists of two rounds

ROUND-1: INGENIOUS

Prepare an attractive and creative poster by selecting any suitable theme of your choice.

The best designer's will be shortlisted for the next round.

ROUND-2: MAP-OUT

In this round, we will be giving some themes and participant has to choose a theme & prepare a poster based on the selected domain on the spot within the mentioned time and they have to present their concept through their poster in a meaningful way.

4. ANALYTICA:

Analytica using or skilled in using analysis i.e., separating a whole intellectual or substantial into its elemental parts or basic principles.

5. EXOTECH ODYSSEY

This event consists of three rounds.

ROUND 1 : CLIP OUT

The teams are allowed to take some set of newspapers and they are asked to pick a category and then they have to clip out the articles separately in the given time. The maximum number of clippings collected by the teams will be advanced to next level.

ROUND 2 : CRYPTO GRID

Decode the given phrases and find the appropriate word for that phrase in the puzzle. The maximum number of puzzles solved by the teams will be advanced to next level.

ROUND 3 : WHISPER CHALLENGE

One participant from the team wears a headphone and listen to loud music through their headphones while another participant whispers a phrase or a word to them. The team with maximum correctly guessed phrases or words wins.

6. ADVENTURE NET

ROUND 1 (IPCONFIG):

Each contestant is provided with a computer and a network address is provided for them they have to assign their roll no as the host id and they have to configure the network settings of the computer the contestants who configures and connect to the internet in the given time i.e. 20 min are shortlisted for second round

ROUND 2 (LOOK-UP):

The round 2 begins with the URL's ,Domain names we display the participants has to resolve the given URL or Domain name and they have to provide the information about the given URL or Domain name such as

- Public IP- address of the Domain
- ISP details of the Domain
- Location
- No of subnets . etc.

The participants who resolve more details of the given domain name in the given time i.e. 20 min are qualified for the final Round 3.

ROUND 3 (CONNECT):

Round 3 is a mixture of fun and technical. Over Here the participants have to scatter over the college premises and they have to find the clue written on a piece of paper , the interesting thing is the contestants are provided with riddles or map which helps them to find the clues scattered , the contestants who finds the clues has to return to the venue and they have to use the clue to connect to the wifi router present at the lab the first contestant who

connects to the internet and open the KITSW site is the winner. The time limit for this round is 35 min.

7. ICONNECT

Round-1:

It is a fun round in which there are few questions provided to each team. Questions are related to Technical, riddle, etc... This round has elimination. Only top 5 teams are promoted. In this each team consists of 5 members.

Round-2:

This round is related to connections. The promoted teams will be participating to this. In these teams are provided with equipment, and the teams should obtain the correct connection. The first 3 teams those who obtain the right connections will be the winners.

8. JARVIS

This event consists of three rounds.

ROUND 1 : CLUSTER-BUSTER

This round mainly is about the machine learning topic which is clustering. We will briefly explain new students or the participants about the use of clustering in a live animated presentation by us. In this round we will play a game of clustering in which student have to participate in a way such that in a box couple of color balls/items of different colors are given to them. We check the time of the students how fast can they cluster those items and decide the conclusion of the round. There is no elimination in this round. In this round we will check which participant is stronger and active and further decide winner.

ROUND 2 : varifAI

This round is about Artificial intelligence. We will use same software as Dall-E, in which if text is given of your imagination, then it presents you in an image form. So, we will explain it in live animated presentation. In this round we will give an image to the students in such sort like two words or images are mixed with each other, then students have to guess those two words or image which we have given without their acknowledgment of what has been given to them on the projector. Then we will allot the points to students for those who guessed correctly and minus for not guessing and we will eliminate those groups who have less points compare to the other groups.

ROUND 3 : WORLD OF WUMPUS

This is the final round of this event. Which is the most famous game in artificial intelligence world which is 'WUMPUS-WORLD'. On the projector one by one we will let groups to play this game. We will play this round all according to the rules of the original game rules. We will check the student's scoring points in this game and we will add up all the possibilities of this game points. Then we will see which group is taking the prize home by fair point classification from all the rounds. And decide the winner of these three round gaming winners.

9. TECH MEMEZ

Round 1: IAM TELLING THAT

In this round, participants should create Technical memes and submit them in the Gform before the event. Participants can create minimum of 1 to maximum of 5 memes. Evaluation is based on how funny is the meme and the number of memes created.

Round 2 : CREATIVITY

After elimination of round 1,few technical topics are given and one topic is chosen by each team. Create memes within given amount of time. Evaluation is based on time taken, number of memes and fun of meme.

Round 3: ADHEY MAGICCU

Given a design template, and participants should find a related content to fit that template.

10. WEB EXPO

ROUND 1: WEB WANDERER

In these round participants need to design a web page with basic web programming skills. By using basics of web programming like HTML and CSS participants need to design a web page according to the given requirements. They need to create an interface which should contain a couple of buttons. These buttons need to individually represent a specific application. Any action on these buttons should direct to the homepage of that specific application. In this round marks will be allotted according to the design and the presentation of the web page.

ROUND 2: WEB DEVELOPER

In these round participants need to pick a slip from given options. Each slip contains a place or a daily life application where we use web. Participants need to design a web page based on the requirements of that particular place. They need to ensure that the web page created is effective and efficient. Based on the design, efficiency of the web page and neatness the marks are allotted in this round.

Paper presentation event at shumshodhini'2022

Web expo event at shumshodhini'2022

Prize distribution at tech meme event shumshodhini'2022

Prize distribution at web expo event shumshodhini'2022

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (NETWORKS)

CSENA

ASSOCIATION

Venue: BLOCK II, NEW SEMINAR HALL

Convener
Dr. Kumar Dorthi

Head of Department
Dr. S. Narasimha Reddy

LIST OF EXECUTIVE MEMBERS

S.No.	Name	Roll Number	Sem/Branch/Section
1	K. Vennela	B19CN007	7CSN
2	N. Poojitha	B19CN010	7CSN
3	D. Poojith raj	B19CN017	7CSN
4	Sameera Sineen	B19CN028	7CSN
5	G. Ananya	B19CN037	7CSN
6	R. Nischitha	B19CN040	7CSN
7	K. Manusri	B19CN041	7CSN
8	Shaista Fatima	B19CN042	7CSN
9	M. Aishwarya	B19CN049	7CSN
10	K. Srineesh	B19CN054	7CSN
11	K. Harish	B19CN055	7CSN
12	N. Jagan Mohan Reddy	B19CN057	7CSN
13	Sai Anirudh	B20AI013	7CSM
14	Sreeja yerroju	B20AI037	5CSM
15	K. Thrisha	B20AI038	5CSM
16	G. Sai Sumanth	B20AI045	5CSM
17	K. Vrushika	B20AI047	5CSM
18	K. Rufus Paul	B20CN016	5CSN
19	K. Surya Deepak	B20CN031	5CSN
20	R. Amulya	B20CN037	5CSN
21	Maloth Akshaya	B20CN055	5CSN

22	J. Harsha Vardhan Rathod	B20CN060	5CSN
23	N. Ajay	B20IN035	5CSO
24	M. Pranav Chandra	B20IN037	5CSO
25	Preethinka Buggaveethi	B20IN038	5CSO
26	A. Nithish Kuman	B20IN044	5CSO
27	Mohammed Nauman Mahbub	B20IN052	5CSO

INTRODUCTION

Inauguration of CSENA is an auspicious event specifically conducted for 2nd and 3rd year students to embrace the bifurcation of CSE(N) from CSE . The Association's logo , poster , instagram account has been released by the honorable guests , which is follwed by department overview and Association overview by HOD and executive member from 3rd year respectively. This inauguration has successfully ended with refreshments.

INAUGURATION DESCRIPTION:-

1. INVITING GUESTS ON TO THE STAGE

Cheif guest Dr.P.Niranjan garu , guest of honor Dr.C.Srinivas garu and Dr.V.Shankar garu , HOD Dr.S.Narasimha Reddy garu, conveners Dr.Kumar Dorthi garu and N.Santhosh kumar garu are humbly welcomed on to the stage with flower bouquet as a token of love.

2. JYOTHI PRAJWALANA:

All the dignitaries had joined to lighten the jyothi for jyothi prajwalana.

3. LOGO RELEASE BY CHEIF GUEST

Our honorable cheif guest Dr.P.Niranjan garu , Professor -CSE have inaugurated the logo of computer science and engineering(networks) association.

4. POSTER RELEASE BY GUEST OF HONOR

Our respected guest of honor HOD of CSE Dr.C.Srinivas garu , Assoc.Prof. & head have released the poster of CSENA .

5. INSTAGRAM ACCOUNT OPENING BY GUEST OF HONOR

Our admirable guest of honor Dr.V.Shankar garu , Professor-CSE(N) have released the instagram account of CSENA.

6. DEPARTMENT OVERVIEW BY HOD

Our beloved HOD Dr.S.Narasimha Reddy garu , Assoc.Prof. & head have given an overview of the department with his motivating words.

7. ASSOCIATION OVERVIEW BY STUDENT

An overview of the association and activities performed in it is given by Aishwarya bearing roll no. B19CN049 ,executive member from 3rd year.

8. SPEECH BY CONVENER OF CSE ASSOCIATION

N.C.Santhosh kumar garu,convener of CSEA have shared his knowledgable words and given guidelines on how students can get benefited from associations.

9. SPEECH BY CSEA PRESIDENT

Mr.K.Vishnu, president of CSE association has shared a few words about his experiences in the association and encouraged students to have mutual interactions.

10. SPEECH BY GUEST OF HONOR

A speech to inspire students to do their best in the academics as well as in association events is given by guest of honor , HOD of CSE Dr.C.Srinivas garu , Assoc. Prof. & head and Dr.V.Shankar garu.

11. SPEECH BY CHEIF GUEST

A speech to address students by explaining the importance of associations is given by our chief guest Dr.P.Niranjan garu , Professor. He motivated us to actively participate in all the events to have an exposure .

12. TOKEN OF GRATITUDE

We expressed our token of gratitude to our dynamic senior faculty Dr.S.Venkatramulu garu, S.Nagaraju garu and Dr.V.Chandra Shekhar Rao garu with cherishing flower boquet.

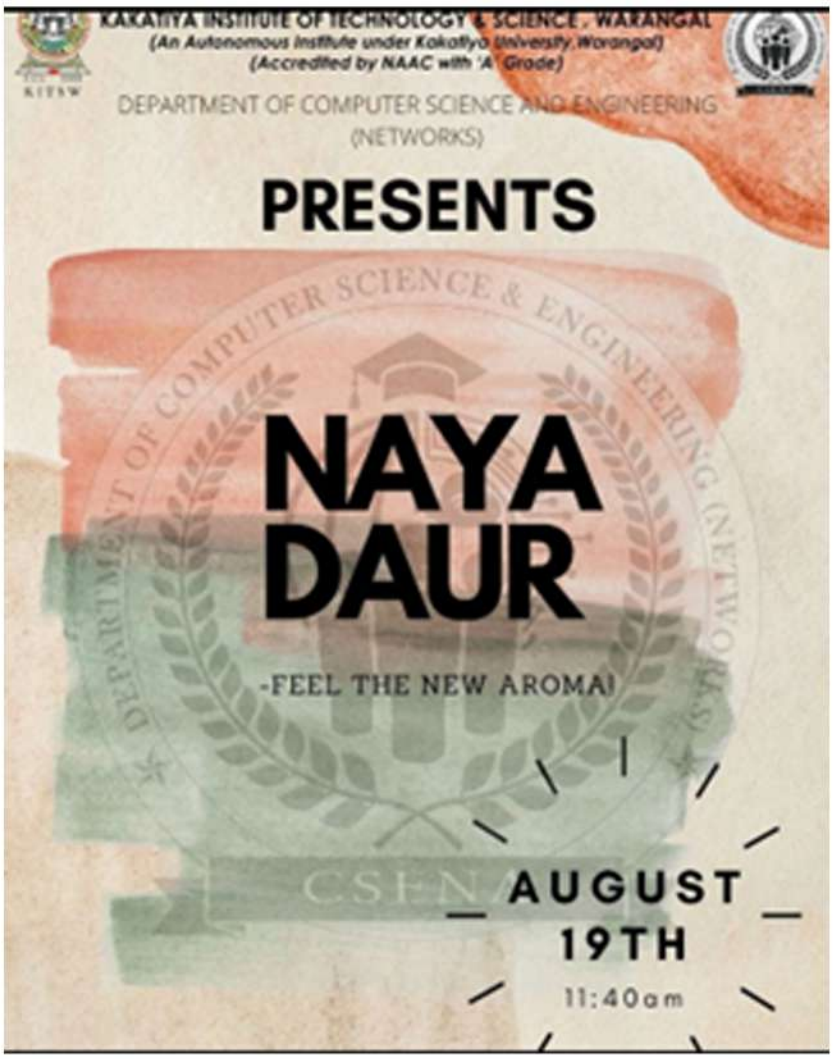
13. VOTE OF THANKS BY CONVENER

In the end , our convener Dr. Kumar Dorthi garu offered a vote of thanks to all. He thanked all the invited guests and participants for gracing the occasion by their solemn presence. He ended the inauguration by distributing diaries as token of thanks.

Inauguration has successfully organized with help of teaching, nonteaching staff and students. Students have joined this event and made it grand success. Every student shown their interest and joined the inaugural. Good feedback has received from the students or participants.

Event Name: NAYA DAUR

Date:19.08.2022



INTRODUCTION

Naya Daur is an interactive session between juniors and seniors. The main motto of our event is to provide 'Useful Insights' by communicating with the juniors about association and college related issues, educational related doubts and making them to interact with us.

Event Description:

Event started with a little introduction of CSENA team. President of CSENA, Nischitha of VII sem, talked about the importance of association hour and interacted with the juniors.

After listening to seniors, many of the juniors started to pose their doubts. This interaction session made many juniors to have an idea about the college and events conducted by the college and subjects.

CONCLUSION

Naya Daur has successfully organized with help of teaching, nonteaching staff and students. Students have participated with excitement and gain knowledge from this event i.e. by interacting with students from different sections. This event totally based on providing useful insights. Every student shown their interest and interacted with the seniors. Good feedback has received from the students or participants.

Event Name: KRITAGNYA

Date:09/09/2022

INTRODUCTION

KRITAGNYA is a spectacular event which was conducted to show gratitude towards teachers. This event is dedicated to our teachers for their valuable efforts in making many students future bright and promising.
We took the privilege to honor them with a little token of gratitude. Some of the students shared their remarkable memories with the teachers and also their views regarding the importance of teachers in our life.

Token of Gratitude to the teachers

CONCLUSION

Kritagnya has been successfully organized with the help of all the teaching, non-teaching staff and students. Teachers have been very cooperative and shared valuable information with the students and students on the other side expressed their gratitude and respect towards the teachers.

Event Name: TECH AVENUE

Date:16.09.2022

INTRODUCTION

Tale of The Treasure is a spectacular event which is a fusion of technical and entertainment, conducted in association hour . Tech Avenue is an interactive knowledge driven event. The main motto of our event is to provide 'Useful Insights' by bringing resource person to the college and making them to interact with students. Grad Stellar visited the campus and shared many useful insights with the students. They also shared their own experiences about how they started and what they are.

Event Description:

Event started with the introduction of the team gradstellar. Totally 5 persons visited the campus. They interacted with the students about their views regarding different technologies and innovations. After listening to different views of students about different technologies they gave an overview of each technology and explained about the career in different domains.Then they explained about LinkedIn and GitHub and how they play a key role in our career. After that they shared their own LinkedIn profiles and explained about how they build their LinkedIn profiles.Then they shared their github profile and different projects which they have done using github. Finally gradstellar team were thanked with token of gratitude.

Tech avenue event

CONCLUSION

Tech Avenue has successfully organized with help of teaching, nonteaching staff and students. Students have participated with excitement and gain knowledge from this event i.e. by interacting
with students from different sections. This event totally based on providing useful insights. Every student shown their interest and interacted with the resource person. Good feedback has received from the students or participants.

Event Name: ROAD MAP

Date:23.09.2022

Introduction

Road map is an interactive knowledge driven event. The main motto of our event is to provide 'Useful Insights' by bringing resource person to the college and making them to interact with students. Sig 20 team visited the campus and shared many useful insights with the students. They also shared their own experiences about how they started and what they are.

Event Description:

Event started with the introduction of the team sig 20 . Totally 2 persons visited the campus. They interacted with the students about their views regarding different masters foreign institute program and organizations.

After asking different questions from number of students about exams.they gave an overview of each and every different exams and institutes. Then they explained about duolingo IELTS, GRE etc. and they explained about requirements. Finally, SIG team were thanked with token of gratitude. Students were very interested and felt enthusiastic about foreign Institutions.

CONCLUSION

Road map has successfully organized with help of teaching, nonteaching staff and students. Students have shown interest towards knowing about foreign exam and gain knowledge from this event i.e. by interacting with students from different sections. This event totally based on providing useful insights. Every student shown their interest and interacted with the resource person. Good feedback has received from the students or participants.

Event Name: TECHNOFRENZY

Date:11.11.2022

INTRODUCTION

Technofrenzy is an amazing event which is a fusion of entertainment and education, conducted in association hour.Technofrenzy is an event which is the combination of fun and technical quiz. This event consists of two rounds. First round is “Guess the challenge” and the second round is “Quizzie-buzzie”. This an event where students will actively participate as it is refreshing and also informative at the same time.

Event Description:

Round 1:

In round 1 some of the images related to movies and movie dialogues are displayed for participants. Images consists of emojis, lead actors of the particular movie, dialogues and many more. There are two teams, one team of boys and another team of girls. Participants will guess the movie names or the dialogues.

Round 2:

This round is completely technical. Participants will be given the passcode of an online quiz platform (Quizzes). The quiz consists of technical questions. In the given time limit all the participants should choose the correct answer or fill in the blanks provided with questions. At the end winners are declared on the basis of score on the online quiz platform.

CONCLUSION

Technofrenzy has successfully organized with help of teaching, nonteaching staff and students. Students have participated with excitement and gain knowledge from this event i.e. by interacting with students from different sections. This event totally based on fun activity and technical quiz. This event will also increase the competitive spirit of the fellow students. Good feedback has received from the students or participants.

FACULTY ACHIEVEMENTS

Sponsored Research /Consultancy Projects

Name of the faculty: Dr.Jothi Prabha Appadurai

Title of Project & Role: Development of Novel Video/Image Compression Algorithms(Co-Investigator)

Funding Agency: Defense Research and Development Organization(DRDO)

Grant Received /Amount mobilized (Rs.): 9.8 L

Sanctioned year&Status: 2021 , Ongoing

Awards /Prizes/ Honours / Recognitions:

Name of the Faculty: Dr.Soora Narasimha Reddy

Details: Certificate of Excellent on completion of Wipro TalentNext Project and received 2nd place.

Instituted by: Wipro Pvt. Lt., Banglore

Received on (Month, Year): March-2022

Science Citation / Web of Science Indexed Journals

TITLE: An Attention based Neural Architecture for Arrhythmia Detection and Classification from ECG Signals

AUTHOR: Dr.Kalyanapu Srinivas

ABSTRACT: Arrhythmia is ubiquitous worldwide and cardiologists tend to provide solutions from the recent advancements in medicine. Detecting arrhythmia from ECG signals is considered a standard approach and hence, automating this process would aid the diagnosis by providing fast, cost-efficient, and accurate solutions at scale.

TITLE: Eye Movement Feature Set and Predictive Model for Dyslexia: Feature set and predictive model for dyslexia

AUTHOR: Dr. Jothi Prabha Appadurai

ABSTRACT: Dyslexia is a learning disorder that can cause difficulties in reading or writing. Dyslexia is not a visual problem but many dyslexics have impaired magnocellular system which causes poor eye control. Eye-trackers are used to track eye movements. This research work proposes a set of significant eye movement features that are used to build a predictive model for dyslexia. Fixation and saccade eye events are detected using the dispersion-threshold and velocity-threshold algorithms. Various machine learning models are experimented.

TITLE: Road Identification Through Efficient Edge Segmentation Based on Morphological Operations

AUTHOR: Dr.S.Kiran

ABSTRACT: Road identification from high-precision images is important to programmed mapping, urban planning, and updating geographic information system (GIS) databases. Manual identification of roads is slow, costly, and prone to errors. Therefore, it is a hot topic among remote sensing experts to develop programmed techniques for road identification from satellite images.

TITLE: IOT and Artificial intelligence enabled state of charge estimation for battery management system in hybrid electric vehicles

AUTHOR: Dr.S.Kiran

ABSTRACT: In recent times, Internet of Things (IoT) technologies have gained significant attention for the improvements and design of smart grids. The utilisation of hybrid electric vehicles (HEVs) as dynamic electrical energy management systems in smart grid possesses several benefits while affecting the grid and HEV battery pack. Amongst several HEV technologies, an effective battery management system (BMS) remains a challenging problem, which is mainly utilised to indicate the battery state of charge (SOC).

Science Citation / Web of Science Indexed Journals

TITLE: An Application Oriented Framework for Plant Disease Identification and Classification Using Deep Bilinear Convolution Neural Networks

AUTHOR: Dr.Kalyanapu Srinivas

ABSTRACT: Plant diseases have become a major threat in farming and provision of food. Various plant diseases have affected the natural growth of the plants and the infected plants are the leading factors for loss of crop production. The manual detection and identification of the plant diseases require a careful and observative examination through expertise. To overcome manual testing procedures an automated identification and detection can be implied which provides faster, scalable and precisive solutions. In this research, the contributions of our work are threefold.

TITLE: Machine Learning-Based Modelling and Predictive Maintenance of Turning Operation under Cooling/Lubrication for Manufacturing Systems

AUTHOR: Dr. Jothi Prabha Appadurai

ABSTRACT: Cutting force is one of the significant parameters in the metal cutting process. The metal cutting process is the primary in the production and manufacturing industry to produce high-quality products. Every production and manufacturing needs to develop a technology, i.e., a cooling or lubrication system at the cutting zone while doing the metal cutting process. This current work focuses on developing the machine learning algorithm by using three different types of regression processes, namely, polynomial regression process (PR), support vector regression (SVR), and gaussian process regression (GPR).

TITLE: Handling uncertainty using optimal clustering with rough sets-based rule generation model for data classification

AUTHOR: B.HANUMANTHU

ABSTRACT: In recent times, Map Reduce has become a popular tool for handling big data. At the same time, uncertainty is related to arbitrariness, fuzziness, ambiguity, irregularity and incomplete knowledge. In RS theory, the uncertainty behaviour of the data in the dataset of interest is managed by using upper and lower approximate sets and classification accuracy. The RS model is integrated with data clustering technique for optimal outcomes.

Scopus Indexed Journals

Title of the Research: Recognition of Yoga Asana from Real-Time Videos using Blaze-pose

Name of the Faculty: Dr. Narasimha Reddy Soora

ABSTRACT: Yoga is a broad concept that connotes union. Considering yoga's spiritual and health benefits, it is now practiced by millions of people worldwide. It is crucial to perform yoga asana correctly like other exercises. Any mistake made while performing asana could result in severe injuries and is life-threatening. So, through this paper, we propose a lightweight and robust architecture that could recognize yoga asana from video input which could be our personal AI-powered yoga instructor. The proposed model is so computationally efficient that it can be deployed even in entry-level smartphones, browsers, and smart TVs. Most of the existing techniques use either expensive hardware configuration such as Kinect or specialized feature extraction techniques from raw inputs for each asana. Even though these produce decent accuracy in a controlled environment, they are complex to design and often fail in most real-time cases with complex backgrounds. However, several research works have recently exhaustively used deep learning (DL) techniques to recognize asana. The problem with the existing asana recognition methods from the literature is that they either demand high-end configurations or do not produce key points while recognition, which is crucial in pose correction employed at a later stage. For the training of the model, there are not many publicly available datasets.

BOOK CHAPTERS

TITLE: Smart Water Management System in Agriculture using Internet of Things

AUTHOR: Dr. Narasimha Reddy Soora

Book title editor & publisher, Year: Smart Innovation, Systems and Technologies Editor:Dr.Suresh Chandra Satapathy,Year: 2022,Publisher: Springer,

Publisher & ISSN/ISBN: Publisher: Springer,ISBN: 978-981-16-9705-0

No.of Co-author-2,Date of publication: 22-05-2022.

TITLE: AI-Based Deep Random Forest Ensemble Model for Prediction of Covid-19 and Pneumonia from Chest X-Ray Images.

AUTHOR: Dr.Jothi Prabha Appadurai

Book title editor & publisher, Year: Title:Artificial Intelligence for Innovative Healthcare Informatics,

Publisher & ISSN/ISBN:Publisher: Springer,ISBN: 978-3-030-96569-3

No. of Co-authors: 2,Date of publication: 24-05-2022.

TITLE: Smart Water Management System in Agriculture using Internet of Things.

AUTHOR: Dr.Kumar Dorthi

Book title editor & publisher, Year: Title: Smart Innovation, Systems and Technologies

Editor: Dr. Suresh Chandra Satapathy

Publisher & ISSN/ISBN:Publisher: Springer,ISBN: 978-981-16-9705-0

No. of Co-authors: 2,Date of publication: 22-05-2022.

TITLE: Multiple License Plates Detection in Videos and Still Images Using Various Geometrical Properties and Filtering Techniques

Name of the author: Dr. Narasimha Reddy Soora

Publisher details: B P International

Month &Year of publication: 2021.

BOOK CHAPTERS

TITLE: An Aware of Artificial Intelligence with involve of Internet of Things in Distance Learning

Name of the author: Enugala Vishnu Priya Reddy

Publisher details: Himalaya publications

Month &Year of publication: 2021 .

TITLE: An Efficient Machine Learning Model for Prediction of Dyslexia from Eye Fixation Events

Name of the author: Dr.Jothi Prabha A

Publisher details: BP International

Month &Year of publication: 2021

TITLE: Online Railway Reservation based on Voice

Name of the author: Dr.Jothi Prabha A

Publisher details: Akinik Publications

Month &Year of publication: 2021

TITLE: Internet of things and wearables-enabled Alzheimer detection and classification model using stacked sparse autoencoder

Name of the author: Dr.S.Kiran

Publisher details: elsevier

Month &Year of publication: 14 January 2022.

TITLE: DCMM: A Data Capture and Risk Management for Wireless Sensing Using IoT Platform

Name of the author: Dr.S.Kiran

Publisher details: WILEY

Month &Year of publication: NOV 2021

TITLE: Smart Water Management System in Agriculture using Internet of Things

Name of the author: Dr. Narasimha Reddy Soora,Dr.Kumar Dorthi.

Publisher details: Springer.

Month &Year of publication: ISBN: 978-981-16-9705-0

BOOK CHAPTERS

TITLE: AI-Based Deep Random Forest Ensemble Model for Prediction of Covid-19 and Pneumonia from Chest X-Ray Images

Name of the author: Dr.Jothi Prabha Appadurai

Publisher details: Springer

Month &Year of publication: May 2022

Conferences

1. Name of the Faculty: Dr. Narasimha Reddy Soora, Dr. Kumar Dorthi

Title of the research paper: Character Recognition using Perpendicular Distance on Sweep Line and Chi-Square Statistic as classifier

ABSTRACT: In ordered to identify an object in an image it is considered a single unit and this process is known as image processing. So, In this paper, we have proposed a novel feature extraction (FE) technique for character/digit recognition (CR) by applying perpendicular distance onto a sweep line from borders of the input character. Proposing a robust FE technique is crucial for any CR system for better performance. CR plays crucial role in many Image Processing (IP) applications. Before extracting the features of the image, process it by converting into grey scale and subsequently to binary image.

Name of the Conference and Organizer: International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES).

Conference Dates and Place: 24-25 September 2021.

2. Name of the Faculty: Dr. Narasimha Reddy Soora

Title of the research paper: Object Recognition using Novel Geometrical Feature Extraction Techniques

ABSTRACT: In Image Processing, an object is an identifiable portion of a particular image that can be interpreted as a single unit. Humans have the ability to recognize any type of objects whether they are alphabets, digits or any living and non-living things irrespective of their forms. When it comes to a machine, it detects an object by extracting its features. Feature Extraction is the most popular research area in the field of image analysis, and it is the primary requirement for representing an object.

Name of the Conference and Organizer: International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES).

Conference Dates and Place: 24-25 September 2021

3. Name of the Faculty: Dr.Kumar Dorthi

Title of the research paper: A Study on Effective Product Marketing on E-Commerce based on Early Reviews

ABSTRACT: The mining of essential data from online sources has grown a famous study area in information retrieval methods in recent years. With the evolution and growth of social media, it is an excellent inclination for people to experience what they are exploring with friends across multiple social networking stages.

Name of the Conference and Organizer: 2021 International Conference on Intelligent Technologies (CONIT).

Conference Dates and Place: 25-27 June 2021 Bangalore, India

Conferences

4. Name of the Faculty: B.Srinivas

Title of the research paper: Neural Network based Emotion Recognition Model in Twitter Text Data

ABSTRACT: Recently, the online social networks are rising as the new field for the individuals to share their perspectives and viewpoints on various issues and subjects with their companions, family, family members, and so on. Twitter being the well-known micro-blogging tools permits the people to share their musings, mental status on explicit social, public, worldwide issues through textual content, photographs, voice and video messages and posts. In reality, in spite of the accessibility of the different types of correspondence, text is one of the most well-known methods of communication in an informal community.

Name of the Conference and Organizer: 2nd International Conference on IoT Based Control Networks and Intelligent Systems to be held in Kerala, India during 28-29, June 2021.

Conference Dates and Place: 28-29 June, 2021.Kottayam,India

5. Name of the Faculty: B.Srinivas

Title of the research paper: Emotion Extraction and Classification from Twitter Text"

ABSTRACT: Human beings are treated specially for their emotions. Emotions define a person's perspective and feelings towards the stated topic. In the present digital era, social media is given topmost priority.
People share their ideas, opinions, and information through various social media platforms like Facebook, Twitter, Instagram, etc. Twitter is such a powerful social platform where people can connect and share their feeling in the form of tweets. In our system, we have picked out the basic six human emotions (Happy, Sad, Anger, Surprise, Love, Disgust). Our system aims to identify and extract the emotion from the text that is tweeted by the users.

Name of the Conference and Organizer: 2nd International Conference on IoT Based Control Networks and Intelligent Systems to be held in Kerala, India during 28-29, June 2021.

Conference Dates and Place: 28-29, June 2021,Kottayam,India

6. Name of the Faculty: I SAI RAMA KRISHNA

Title of the research paper: Novel Approach for Character Recognition using Chi-square

ABSTRACT: One of the most amazing outcomes of image processing being optical character recognition (OCR) play a key role in various applications such as automated processing of documents, auto-evaluation of answer sheets. The multilingual character recognition is very challenging area in OCR, because of the complex shape of various characters. In this paper, we propose an extended shadow feature extraction technique along with shadow features which has the capability to extract the complex structure of most of the multilingual characters and these

Conferences

Name of the Conference and Organizer: International Conference on Data Engineering & Communication Technology- ICDECT-2021

Conference Dates and Place: 27-28 August,2021,KITS-W

7. Name of the Faculty: Dr. Narasimha Reddy Soora, Swathy Vodithala

Title of the research paper: Filtering Techniques to remove Noises from an Image

ABSTRACT: Now a days a lot real world applications are based on image processing. In image processing after image acquisition, the next step is pre-processing stage. The main objective of pre-processing stage is to make the image appear visually better to the end user by removing noise using various filtering techniques. Filtering techniques change the look and feel of the image using its pixel information. There are various kinds of noise present in an image like salt pepper noises, blur, Gaussian noises, periodic noises, etc. These noises can be removed by various kinds of spatial and frequency domain filtering techniques like mean filters, median filters, Weiner filters and many more. This paper presents the effect of various kinds of filtering techniques on noisy images.

Name of the Conference and Organizer: International Conference on Advances in Computing, Communication and Applied Informatics

Conference Dates and Place: 28-29 January 2022

8. Name of the Faculty: Dr. S.Kiran

Title of the research paper: COVID-19 Patterns Identification using Advanced Machine Learning and Deep Neural Network Implementation.

ABSTRACT: Recently, the effect of the Covid-19 is massive and the virus constantly is mutating. The Generative Adversarial Network (GAN) is the modern efficiency technique used by advanced neural networks to analyze data in cavernous environment. This paper reviews the issues in datasets of Covid, that enables patients to be diagnosed and predicted. The GANs are used to produce, transform, and view datasets profound that trends in medical database.

Name of the Conference and Organizer: 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)

Conference Dates and Place: 23-25 February 2022,Coimbatore, India.

Conferences

9. Name of the Faculty: Dr. S.Kiran

Title of the research paper: Development and Implementation of Internet of Things based Advanced Women Safety and Security System

ABSTRACT: Though there is so much of advancement in technology women safety is still an unsolved issue, they aren't safe anywhere. So this research work is initiated with an idea to alert the people using Internet of things (IoT). IoT connects number of devices which plays a vital role in exchanging useful information among them. There are many existing models but require human intervention. New perspective of women security caution framework which includes arduino and doesn't include human intervention is the main aim of our project. When any danger is sensed, the the alert will be sent to the family members along with the current location of the victim.

Name of the Conference and Organizer: 2022 7th International Conference on Communication and Electronics Systems (ICCES)

Conference Dates and Place: 22-24 June 2022,Coimbatore, India

10. Name of the Faculty: Dr. S.Kiran

Title of the research paper: Long-Range wide-area network for secure network connections with increased sensitivity and coverage

ABSTRACT: The LPWAN (Low Power Wide Area Network) networks are the evolution of wireless sensor networks directed to the IoT (Internet of Things) concept, which entails sensor connectivity to the Internet. This paper presents a performance evaluation of the LoRa wireless networks. LoRa technology represents a possible solution to the problems of the IoT (Internet of Things) concept. The used frequency bands belong to the unlicensed ISM (Industrial, Scientific and Medical) frequency band. Thus, the parameters analyzed are: ToA (Time on Air), the bitrate and the Spreading Factor (SF) influence on performance level.

Name of the Conference and Organizer: AIP Conference Proceedings 2418, 030080 (2022); https://doi.org/10.1063/5.0082116

Conference Dates and Place: Published Online: 24 May 2022

Conferences

11. Name of the Faculty: Dr. S.Kiran

Title of the research paper: Machine LearningBased PredictiveAnalyticson Social Media Data for Assorted Applications

ABSTRACT: With 140-character messages, Twitter advertises itself as a "real-time information network," connecting people from all over the world. It's free to use, and all you need is a computer and an Internet connection (or a phone with SMS capability). Twitter became popular. Twitter began as a way to let people know what one was up to. It's also been used to backchannel during meetings and to publish job announcements. Today, businesses keep a close eye on it for public relations and customer service objectives. For all intents and purposes, Twitter is a dynamic and evolving communication medium.

Name of the Conference and Organizer: 2022 International Conference on Electronics and Renewable Systems (ICEARS)

Conference Dates and Place: 16-18 March 2022,Tuticorin, India

12. Name of the Faculty: Dr. S.Kiran

Title of the research paper: Database Patterns for the Cloud and Docker Integrated Environment using Open Source Machine Learning

ABSTRACT: Computer vision, natural language processing, sentiment analysis, and fraud detection are just a few of the sectors, where significant area of research are Machine and predictive analysis. Machine learning can be used to train or set up software and application of H/W for mining specially and the acquisition data. In order to extract accuracy and performance among datasets utilizes unsupervised and supervised data, MLDB for high-performance data analytics for a variety of applications is presented in the work as usage patterns of an open source machine learning platform.

Name of the Conference and Organizer: 2022 International Conference on Electronics and Renewable Systems (ICEARS)

Conference Dates and Place: 13 April 2022

Tuticorin, India

Conferences

13. Name of the Faculty: Dr. S.Kiran

Title of the research paper: Advanced Machine Learning Scenariosfor Real World Applications usingWeka Platform

ABSTRACT: The most significant predictive Analysis, Machine and Deep Learning in a wide range of fields, including engineering, finance, economics, and real-time imaging. To obtain greater accuracy, scientists are experimenting with a various customs frame works and including tools and technologies. According to Market Research News US, machine learning-based implementations would have a global market value of nearly 50 billion dollars by year 2025.Government and social services are currently implementing Machine and Deep learning in order to reach barest minimum of mistakes reductions. There are several companies in the industry working on cutting-edge algorithms and implementation views for machine learning.

Name of the Conference and Organizer: 2022 International Conference on Electronics and Renewable Systems (ICEARS)

Conference Dates and Place: 13 April 2022,Tuticorin, India

14. Name of the Faculty: Dr. S.Kiran

Title of the research paper: Usage Patterns and Implementation of Machine Learning for Malware Detection and Predictive Evaluation

ABSTRACT: Researchers have been studying malware detection and predictive analysis for more than ten years due to vast growing of media and network vulnerabilities. Intrusion detection systems and packet capture tools have been used for a long time to monitor servers and conduct forensic investigation of network infrastructure (IDS). With the concluding comments, this paper highlights the many elements of malware detection and avoidance methods. Deep learning based on malware datasets collected from actual honeypots and honeynets is used in the proposed study to design and execute an innovative and successful deep learning-based method.

Name of the Conference and Organizer: 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)

Conference Dates and Place: 30 March 2022

Coimbatore, India

Conferences

15. Name of the Faculty: Dr. S.Kiran

Title of the research paper: MLbased Implementation for Documents Forensic and Prediction of Forgery using Computer Vision Framework

ABSTRACT: Facial Recognition, Biometric Verification, Internet of Things (IoT), Criminal Investigation, Signature Identification in banking are just a few of the fields benefiting from breakthroughs in Computer Vision and Optical Image Processing right now. These applications prepare for dealing with numerous applications for breaking down and determining through the use of images and live video. There are several workouts that make use of computer vision, including checking, face recognition, movement recognition, and object placement.

Name of the Conference and Organizer: 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)

Conference Dates and Place: 30 March 2022

Coimbatore, India

16. Name of the Faculty: Dr. S.Kiran

Title of the research paper: Logistic Regression versus XGBoost: Machine Learning for Counterfeit News Detection

ABSTRACT: In this age of globalization, the unstoppable spreading of fake news via the internet is unstoppable. The spread of false news cannot be supported due to the negative consequences. Machine learning played an important role, in classifying information, although there are some limitations. This article explores various machine learning techniques used to detect fake and fabricated messages. The limitations are discussed using deep learning implementation. In this project, the methodology used is model development and Logistic Regression classifier is considered to detect false news. Based on previous research, this classifier performed well in classification tasks. In this approach, TF-IDF feature is used for the construction of this fake news model to get higher accuracy. The goal of this project is to detect false news using NLP and Machine Learning based on the news content of the article. Following the development of the appropriate Machine Learning model to detect fake/true news, it is deployed into a web interface using Python Flask.

Name of the Conference and Organizer: 2021 Second International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE)

Conference Dates and Place: 15 February 2022

Bengaluru, India

Conferences

17. Name of the Faculty: Dr.Kumar Dorthi

Title of the research paper: Smart farming using IoT

ABSTRACT: Smart agriculture is a farming system which uses IoT technology. This emerging system increases the quantity and quality of agricultural products. IoT devices provide information about nature of farming fields and then take action depending on the farmer input.

Name of the Conference and Organizer: AIP Conference Proceedings 2418, 030074 (2022)

Conference Dates and Place: Bangalore, India

Patents

Name of the Faculty: Hanumanthu Bhukya

Details: MOBILE APPLICATION BASED IOT SYSTEM FOR INTEGRATED FARM

Abstract: India has larger agricultural lands but it does not cross the world's standard in plant productivity. There are many reasons for low plant yield. To improve the productivity, technological support system for agriculture is essential. This paper presents an integrated farm monitoring system by using Smartphone application and Internet of Things. Using this system, farmers can remotely monitor farm for soil moisture, leaf wetness duration, pH level in the soil, temperature and humidity in the environment. The system quickly analyses the weather and soil conditions in a particular area where the plant is present and gives new insights to manipulate the decision making. The system is deployed and tested in fields of Islampur, Maharashtra. The proposed tool is cost effective and productive system for farmers.

Name of the Faculty: Hanumanthu Bhukya

Details: Immune and Physical Fitness Prediction using Machine Learning Programming

Abstract: In this study, we conducted a literature review on machine learning techniques to predict suitable physical activities based on personal context and fitness data. We categorize and structure the research evidence that has been publish in the area of machine learning techniques for predicting physical activities using fitness data.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