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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Dr. Praveen J, IQAC-Director, Professor & Head, Dept. of ECE published an Australian Patent “A NOVEL VLSI BASED ARCHITECTURE FOR STROKE DETECTION USING OPTIMIZED RESOURCE ALLOCATION” with Right number 2021102581 on 20/05/2021.



CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102581

The Commissioner of Patents has granted the above patent on 23 June 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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Title of invention:

A NOVEL VLSI BASED ARCHITECTURE FOR STROKE DETECTION USING OPTIMIZED RESOURCE ALLOCATION

Name of inventor(s):

Sarwade, Prakash Pralhad, Jaiswal, Sushma, J., Praveen, Upadhyay, Mukesh, Yadav, Ruchi, Lakwal, Vijay Ramkisan, Rajput, Aishwarya Premraj, Ezhilselvi, R. Indra Mary, Kumar, Manish, Thimmaraju, Pavan Kumar and Buttar, Ahmed Majeen

Term of Patent:

Dated this 23rd day of June 2021

Commissioner of Patents



PATENTS ACT 1990

The Australian Patent Register is the official public record for the IP details pertaining to this IP Right.

IP

Ashfa M Nadaf and Nagashree K Madival, second year students, department of ECE got Second Place in “PAPYRUS-Online State Level Technical Paper presentation” Organized under EC Forum in association with ISTE Students & IETE Students forum, BIET Davanagere on 10th June 2021. Under the Guidance of **Mr. Sampath Kumar B**, Assistant Professor, Department of ECE.

Smart Weather Monitoring and smart irrigation control system using multi sensors in multi localities Project Selected for **VTU Financial Assistance** the project associates are Aishwarya I G, Ashwini M K, Abhilasha M, Avinash Y. Under the Guidance of **Mr. Sampath Kumar B**, Assistant Professor, Department of ECE.

JUDGE IN STATE LEVEL PAPER PRESENTATION



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Date :

To,

Dr. Santhosh Herur
Assistant Professor
Department of ECE
BIET, Davanagere

Subj: Acknowledgment for being Judge

Respected Sir,

Department of Electronics & Communication Engineering, BIET, Davanagere had organized PAPYRUS 2k21 on JUNE 2021, online state level technical paper presentation competition for students. On behalf of the department and EC forum, we would like to thank you for accepting our invitation as a judge and making the event successful.

Thanking you

With Regards

Program coordinator

Dr. Santhosh Herur, Assistant Professor of E & CE departments served as **External Judge in Papyrus-2k21**, online state level Technical paper presentation competition for the students held in the month of **June 2021** at BIET, Davanagere





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Proposal Submitted to MANTHON 2021					
Sl. No.	Team Members	Sem	Title of Propostion	Date of submission	Mentor
1.	Abhishek Gaikwad Darshan S Darshan V Harshita T S	IV	DIGIMASK-An innovative Toy	9/4/2021	Mr.Gururaj E 
2.	Navaprettam N Pranav V Shivshankar M N Shravan A H	I	ROCK-VED : Digital Game Implementation For Vedic Math	9/4/2021	Ms.Akshata Chavan 
3.	Sagar Patil Shashank R P Santhosh Kumar K S Pankaj Kumar B	I	Bharath Agri Gaming	9/4/2021	

ORGANIZED TECHNICAL TALK ON “CYBER SECURITY AND IT’S JOB OPPORTUNITIES”



The Department of Electronics and Communication Engineering successfully conducted **Technical talk** on **“Cyber Security and it’s Job Opportunities”**, for the final year students of ECE, CSE and ISE departments on **01-06-2021**. The resource person for the event was **Ms. Shwetha Bhuyar, Proud Alumni**, Certified Cyber Crime Intervention Officer, Global Solution Specialist, SONY India Software Centre, Bangalore. She enlightened students about the meaning of Cyber Security, its key terminologies, how it works in reality and things happening in the Cyber Space. She introduced students with types of cyber attackers, how cyber crime is happening with an example and Cyber safety tips. She guided students to follow their “passion” and cover a



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

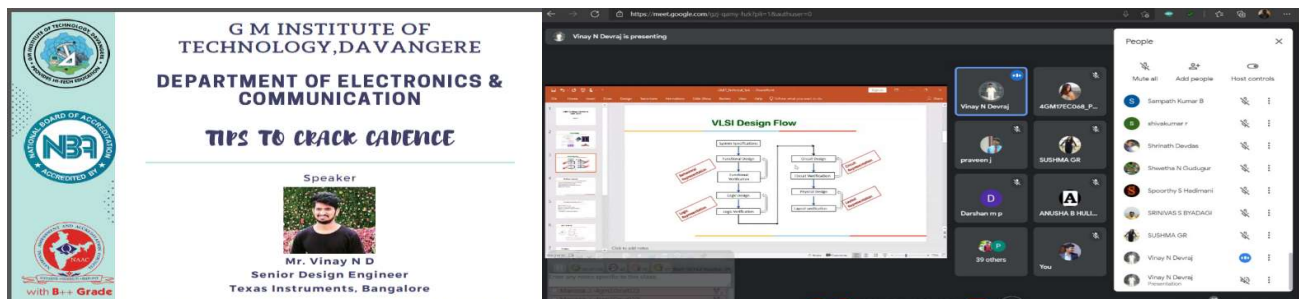
road map about the job opportunities in the Cyber Security field. The session was accompanied by **Dr. Y Vijaya Kumar, Principal** who motivated students to take active part in the session and **Dr. Praveen J, HOD**, Department of ECE addressed students about Cyber security and its importance in the present scenario. This technical talk was organized by **Mrs. Venakta Sumana CH and Mrs. Vinutha L B**, Assistant Professors, Alumni Coordinators, Department of ECE and was successful with the active participation of around 166 students.

ORGANIZED TECHNICAL TALK ON “DATA TECHNOLOGY: HIGH LEVEL INTRODUCTION TO BIG DATA ANALYSIS AND MACHINE LEARNING”



The Department of Electronics and Communication Engineering successfully conducted **Technical talk** on “*Data Technology: High level introduction to Big Data Analysis and Machine Learning*”, for the second year, third year and final year students of ECE departments on **05-06-2021**. The resource person for the event was **Mr. Amogh G S**, Proud Alumni, senior data Analyst, MPL (Mobile Premier League), Bangalore. He enlightened about exposing students to the world of data technology, which included an introduction to Big Data, Data Analytics and Machine Learning. The student would have got a good idea of all the carrier paths in Data Technology and skills required for the same. On the technical front they got the gist of practical and real time applications of the technology along with its future scope. The session was accompanied by **Dr. Y Vijaya Kumar, Principal** who motivated students to take active part in the session and **Dr. Praveen J, HOD**, Department of ECE addressed students about High level introduction to Big Data Analysis and Machine Learning and its importance in the present scenario. This technical talk was organized by **Dr. Latha B M**, Associate Professor and **Mrs. Manjula B K**, Assistant Professor, Department of ECE and was successful with the active participation of around 170 students.

ORGANIZED WEBINAR ON “TIPS TO CRACK CADENCE”





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Electronics and Communication Engineering department had organized a webinar on “**Tips to Crack Cadence**” for the final year students on 20.6.21 from 10:30 AM to 12:00 PM. The speaker was Mr. Vinay N D, working at Texas Instruments as Senior Design Engineer. Various points on how the cadence interview will be conducted was discussed in this regard. The speaker discussed RC Circuits and its importance. He also showed some important problems asked in the process of interview. Discussed the role of engineers in present day society and explained the importance of EC Core industry. This webinar was organized by **Sharanabasaveshwara H B and Dr. Santosh M Herur**, Assistant Professors of E & CE department.

PUBLICATIONS

International Journal of Future Generation Communication and Networking
Vol. 14, No. 1, (2021), pp. 1547-1561

An Internet Of Things To Optimize Human Task Using Artificial Intelligence

Dr.Nagaraj Bhat¹, Dr. Santosh M Herur², Dr.Madhavadas Kalikar³

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Abstract

In Huge Expansion, The Technology Of Artificial Intelligence (AI) And The Internet Of Things (IoT) Is A Natural Complement. All Objects In The Universe Are Connected To IoT Through The Network. Many Network-Dependent Provide A Fast Amount Of Data So That IoT Devices Provide Infinite Chips And Sensor Readings To Inspire People In Different Areas. The Substantial Amount Of Data Provided By IoT Devices Cannot Be Handled And Processed By Human And Computer Software. Those Are Thus Helped By Artificial Intelligence And Algorithms For Machine Learning. The Reasonable Solution AI Allows For The Management Of The Different Related IoT Components. In This Paper Engineers Present A New, Sophisticated Health Care Infrastructure Focused On State-Of-The-Art Innovations Such As The IoT And Artificial Intelligence. This Is Smart Enough For A Patient To Feed And Analyse Data In A Framework For Supporting Medical Decision-Making. Lung Cancer Has Now Been Described As A Deadly Illness That Significantly Raises The Worldwide Death Rate. The Main Purpose Of This Paper Is To Identify Lung Cancer Tumors From The Provided Lung Image And To Determine The Incidence And Severity Of Lung Cancer. The Successful Image Classification Technique, Particularly In Medical Imaging, Now Serves As A Support Vector Machine (SVM). The Support Vector Machine Can Identify The Abnormal Lung Stage (SVM). Moreover, The Overall Grade Accuracy Of 98.34% Is Considerably Greater Than The Approaches Compared.

Keywords: Artificial Intelligence Of Things (AIOT), Feature Selection, Lung Cancer Detection, SVM Classifier, Bag Classifier, And Adaboost Classifier.

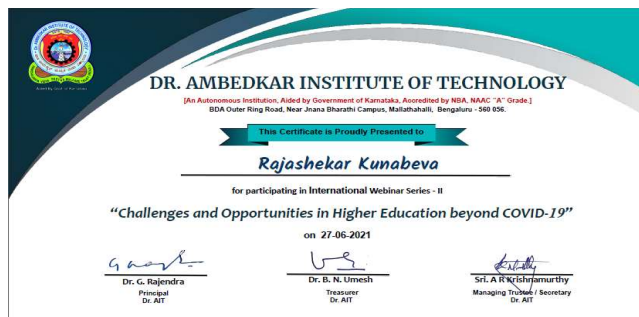
The department faculty **Dr. Santosh M Herur** had published his paper in International Journal of Future Generation Communication and Networking Vol. 14, No. 1, (2021), pp. 1547-1561, titled, “**An Internet Of Things To Optimize Human Task Using Artificial Intelligence**”(Indexed by WoS)

RESOURCE PERSON FOR TECHNICAL TALK



Mr. Raviteja Balekai had got a certificate of appreciation for delivering a technical talk for a webinar on the topic "**Internet of Medical Things**" organised by IEEE Student Branch Manipal and IEEE SBM EMBS Chapter on **31st May 2021**.

WEBINAR ATTENDED



Mr. Rajashekar Kunabeva, Assistant Professor, Department of ECE participated in International Webinar series - II on ‘**Challenges and Opportunities in Higher Education Beyond Covid -19**’ on **27.06.2021** organised by the Dr. Ambedkar Institute of Technology (Autonomous), Bengaluru .



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ATAL FDPS ATTENDED

Mr.RajendraSoloni, Assistant Professor of ECE department had successfully completed AICTE Training and Learning (ATAL) Academy online elementary FDP on ‘**Cognitive Radio, Antennas & Millimetre Wave Communication**’ from **7-06-21 to 11-06-21** at Saranathan College of Engineering.



Mr. Sampath kumar B, Assistant Professor of ECE department had successfully completed AICTE Training and Learning (ATAL) Academy online elementary FDP on ‘**Emerging Trends in Internet of Things**’ from **7-06-21 to 11-06-21** at Acropolis Institute Of Technology And Research – AITR.

Mr. Rajashekar Kunabeva, Assistant Professor of ECE department had successfully completed AICTE Training and Learning (ATAL) Academy online elementary FDP on ‘**Innovation in Telemedicine in Rural India enabled by advancements in Artificial Intelligence, Medical Devices and Internet of Things**’ from **15-06-21 to 19-06-21** at RMK College of Engineering

