SKCET Buzz

14th to 22nd October, 2021

e – Academia Special Issue: 84

INSIDE THE ISSUE

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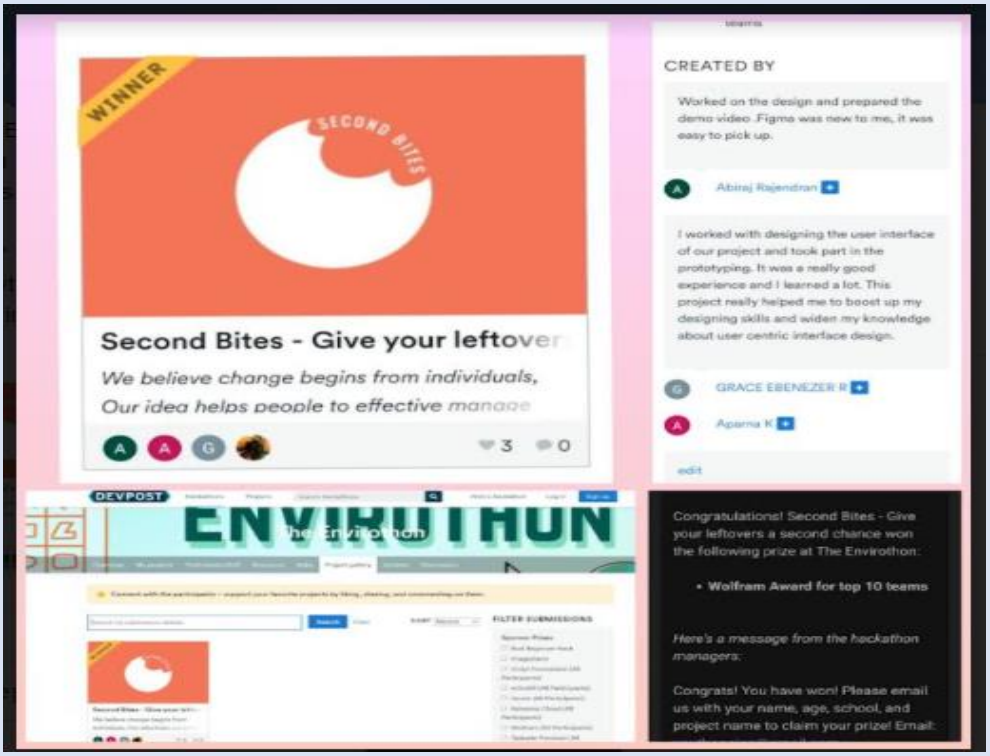
HACKATHON ACCOLADES

IT | HACKCOVID 2.0

Akshayaa D, Gaunisha Gaanavi G, Gayathri J S and **Divya G S,** student of **Third** year **IT A,** have secured 5th position in hack COVID 2.0 organized by HackerEarth.

CSE | ENVIROTHON- ENVIRONMENTAL HACKATHON WOLFRAM AWARD



Student team from **Third** year **CSE** has won "**Wolfram Award** under Top 10 Teams at **"Envirothon-The Environmental Hackathon**" conducted among 347 teams from various countries.

Project Title: Focuses on zero-food wastage monitoring contributing to food sustainability.

Team Members:

- Abiraj R
- Grace Ebenezer R
- Aparna K
- DarweshFazil A

Mentors:

Ms.R.Gowthamani AP/CSE

Ms.M.Rohini AP/CSE

CSE|M.TECH CSE | GITEX GLOBAL SUMMIT 2021-DUBAI

T.G.Bhuvanesh, student of **Second** year **M.Tech CSE** and **T. Kumaraguru** student of **Third** year **CSE** has pitched their project at the "**Future Block Chain Summit, GITEX GLOBAL 2021(Biggest IT Exhibition and Conference)"** organized by **World Trade Center, Dubai** from 17-10-2021 to 21-10-2021. **SKCET Team** was the only College Team chosen and sponsored from Tamilnadu to present their proposal. **Mr. Jimmy Nguyen,** Chairman of Bit Coin Association interacted with the team members and appreciated the influential pitch proposed by them. **Dr. Mohit Gambhir**, **Innovation Director, MoE** was one of the invited prominent speaker from India for this summit.

Mentors:
Dr.P.KavithaRani,HOD/CSE
Ms.A. Priya, AP/CSE

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STUDENTS PROGRESSION

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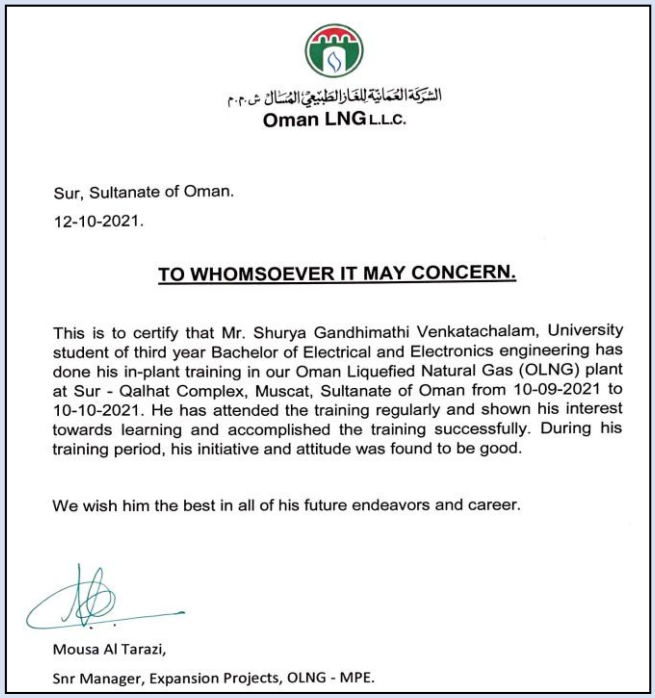
IT| YOUTH ENTREPRENUERSHIP PROGRAM

Pradakshina T M, student of **Final** year **IT** has pitched her start-up idea in RYLA (A youth entrepreneurship program conducted by Rotary Club of Viruthunagar & Punch Gurukulam). The pitch was awarded overall runner up in the event and she has been rewarded with a **4-day trip to Singapore**. The idea will be pitched at **Singapore Trade Center**. This honor was bestowed by **Thiru.V.R. Muthu,** CEO, Idhayam Oil.

EEE | INTERNSHIP @ OMAN LIQUEFIED NATURAL GAS

Shurya.G V, student of **Third** year **EEE "C"** has successfully completed his internship with **Oman Liquefied Natural Gas (OLNG) plant** at Sur, Sultanate of Oman from 10.09.2021 to 10.10.2021.



الشركة العمانية للغاز الطبيعي المسال ش.م.م
Oman LNG L.L.C.

Sur, Sultanate of Oman.
12-10-2021.

TO WHOMSOEVER IT MAY CONCERN.

This is to certify that Mr. Shurya Gandhimathi Venkatachalam, University student of third year Bachelor of Electrical and Electronics engineering has done his in-plant training in our Oman Liquefied Natural Gas (OLNG) plant at Sur - Qalhat Complex, Muscat, Sultanate of Oman from 10-09-2021 to 10-10-2021. He has attended the training regularly and shown his interest towards learning and accomplished the training successfully. During his training period, his initiative and attitude was found to be good.

We wish him the best in all of his future endeavors and career.

Mousa Al Tarazi,
Snr Manager, Expansion Projects, OLNG - MPE.

IT| PROJECT PROTOTYPES EVENT

Christy Mownica.A and **Dhaanyasri Akshika.K**, student of **Second** year **IT** have secured **Third** place in the **"Project Prototypes event"** by IEEE Student Branch of GVP College of Engineering, Andhra Pradesh.They were mentored by **Dr.BarakkathNisha.U,AP/IT.**

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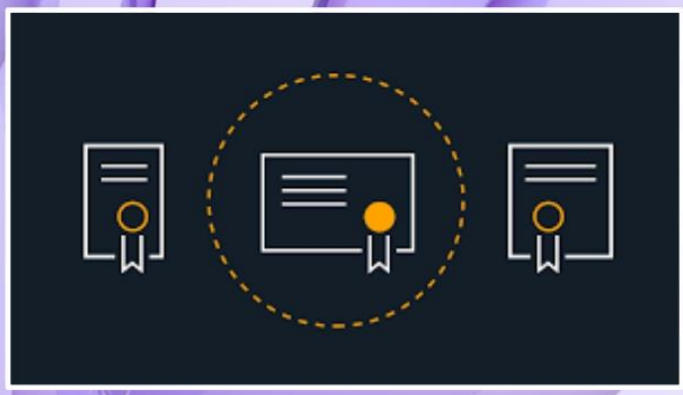
STUDENT CERTIFICATIONS



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MCT | NPTEL CERTIFICATION

P.Aadhavan, student of **Final** year **MCT A** has successfully completed **Entrepreneurship and IP strategy** course conducted during July to September 2021 and has secured **Elite + Gold** certificate.

MCT | NPTEL CERTIFICATION

J.Blesswin Suhirtharaj, student of **Final** year **MCT A** has successfully completed a course entitled **Entrepreneurship and IP strategy** offered by **NPTEL** conducted during July to September 2021 and has secured **Elite + Silver** certificate.

MECH| COURSERA CERTIFICATION

Sabarivasan U, student of **Final** year **Mechanical Engineering** has completed a course on **'Entrepreneurship 1: Developing the opportunity'** authorized by the University of Pennsylvania and offered through Coursera.

CSBS | BASICS OF WEB DEVELOPMENT

Rokith P, student of **Second** year **Computer Science and Business System** has successfully completed two courses titled **"Basics of Web Development"** and **"Basics of Web Development Bootcamp with ShapeAI"** offered by ShapeAI in Collaboration with GDG during October 2021.

AI & DS | COURSERA CERTIFICATION

Sri Dharrshan S and **Sanjay R ,** students of **Second** year **Artificial Intelligence and Data Science** have completed a course titled "**Programming for Everybody (Getting started with Python)"** on October 19,2021 offered through Coursera.

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EVENTS

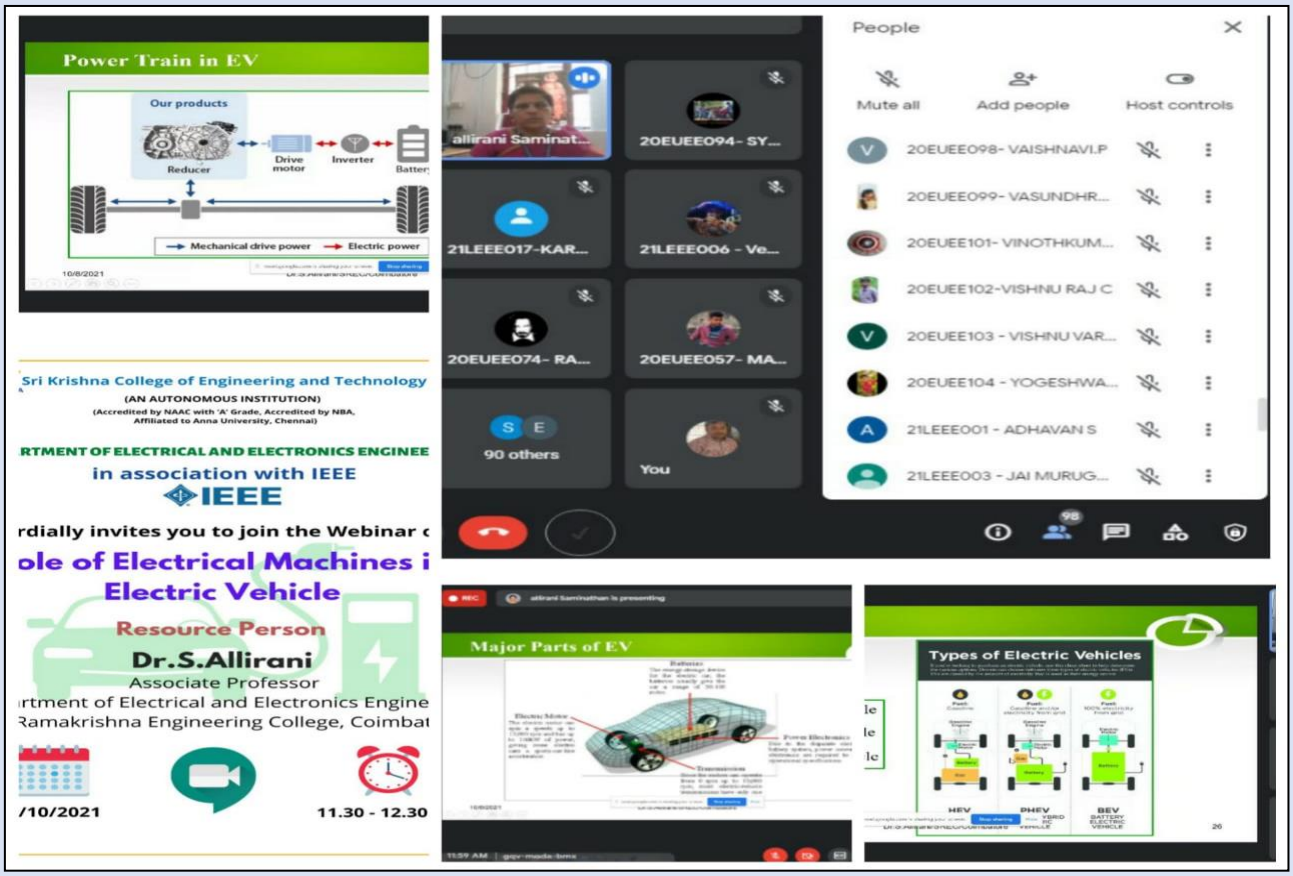
EEE | WEBINAR ON RECENT ADVANCEMENT IN MICROCONTROLLER DESIGN

Department of **Electrical and Electronics Engineering** in association with **IEEE** organized a Webinar on **"Recent Advancement in Microcontroller Design"** for the **Third** year students on 12.10.2021. **Mr. Mughil A,** Member Technical Staff, Zoho IoT team, Zoho Corporation, Coimbatore was the Resource Person. The objective of the session was to encourage the students to understand the overview of various Advanced Microcontrollers.

Session Highlights:

- Recent Trends and Opportunities
- Need for mobile CPUs
- Challenges in IoT-targeted MCUs
- Best Microcontrollers on the Market.

EEE | WEBINAR ON ROLE OF ELECTRICAL MACHINES IN ELECTRIC VEHICLE

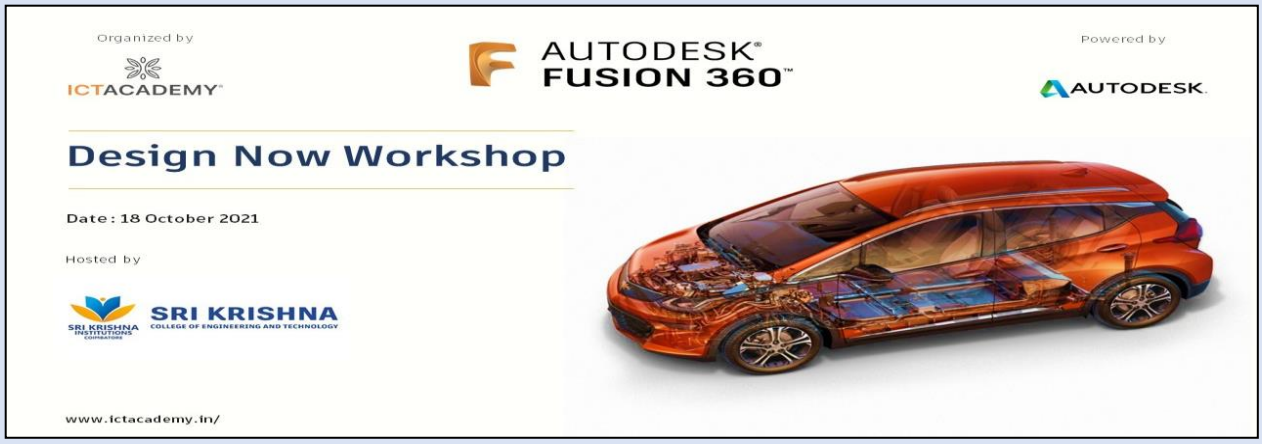


Department of **EEE** in association with **IEEE** organized a webinar on **"Role of Electrical Machines in Electric Vehicle"** for Students and Faculty members on 08.10.2021. **Dr.S.Allirani**, Associate Professor, Sri Ramakrishna Engineering College, Coimbatore was the Resource Person.

Session Highlights:

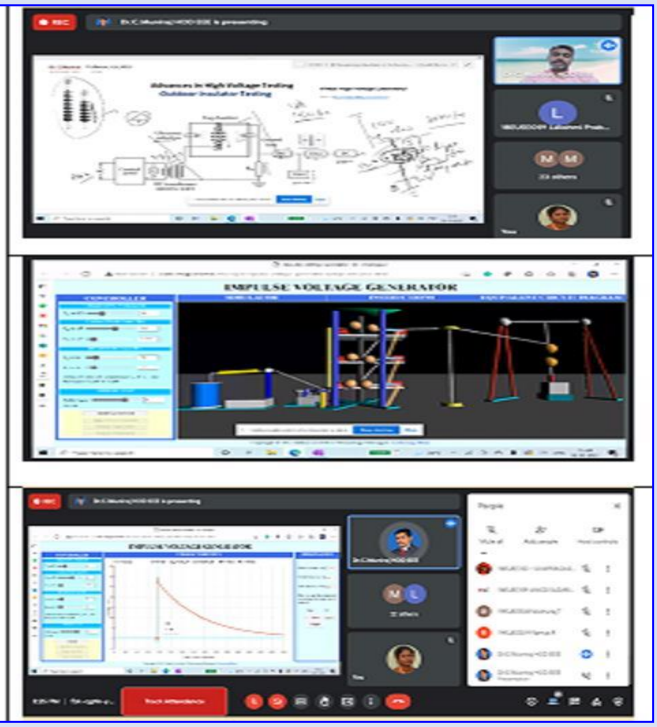
- Role of Electric Vehicle
- Architecture of HEV
- Major parts and different types of EV
- Power train in EV

MECH| DESIGN NOW WORKSHOP BY ICT AND AUTODESK



SKCET in association with ICT Academy and Autodesk organized **Design Now Workshop** on 18.10.2021. **Second** and **Third** year students of **Mechanical Engineering Department** with great enthusiasm participated in the designing event.

EEE | WEBINAR ON ADVANCES IN HIGH VOLTAGE TESTING



Department of **EEE** in association with **IEEE** organized a Webinar on **"Advances in High Voltage Testing"** for the **Final** year students on 18-10-2021.

Resource Person: Dr. C. Muniraj, Professor & Head, Department of Electrical and Electronics Engineering, Knowledge Institute of Technology, Salem.

Session Highlights:

- Recent testing methodologies for High Voltage apparatus.
- Virtual Lab demonstration for High Voltage Testing.
- Prototype simulation of Impulse Generator.
- IoT integration in High Voltage Testing methodology.

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TRAINING AND PLACEMENT

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PLACEMENT| TESTIMONIAL BY PLACED STUDENTS

My life at SKCET made me stronger and took me a step ahead for being an independent woman. I loved the infrastructure of SKCET and its life. The events that I took part helped me to grow my confidence level. I would like to appreciate the placement cell at SKCET for the efforts they made for providing a fair and ample amount of chances to us students. The faculty members worked so hard on our overall development and conducted extra classes for us to enhance our technical and interpersonal skills. I thank my ECE department and its faculty members for encouraging me to think globally and spread my wings to take off for the land of rising Sun and I appreciate the support of my college SKCET for shaping my career and getting me placed in reputed company. I loved my time here at SKCET.

MONALISHA K, ECE (2021 BATCH), PWC

My favorite element of College of SKCET is its faculty members and learning resources. Being knowledgeable, inspiring, and approachable, my mentors provide students with much guidance and mind-opening perspectives. Their dedication to education helps us develop academic interests and grow intellectually. These resources are successful in assisting us in overcoming academic challenges. I am thankful to Training and Placement cell for providing a platform to enhance my skills and an opportunity to showcase them. My experience in SKCET College has helped me grow in a lot of ways and now I am excited to look for new challenges in a new place while pursuing my dreams. I am very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team.

KIRUTHIKANJALI B,CSE (2021 BATCH), HCL

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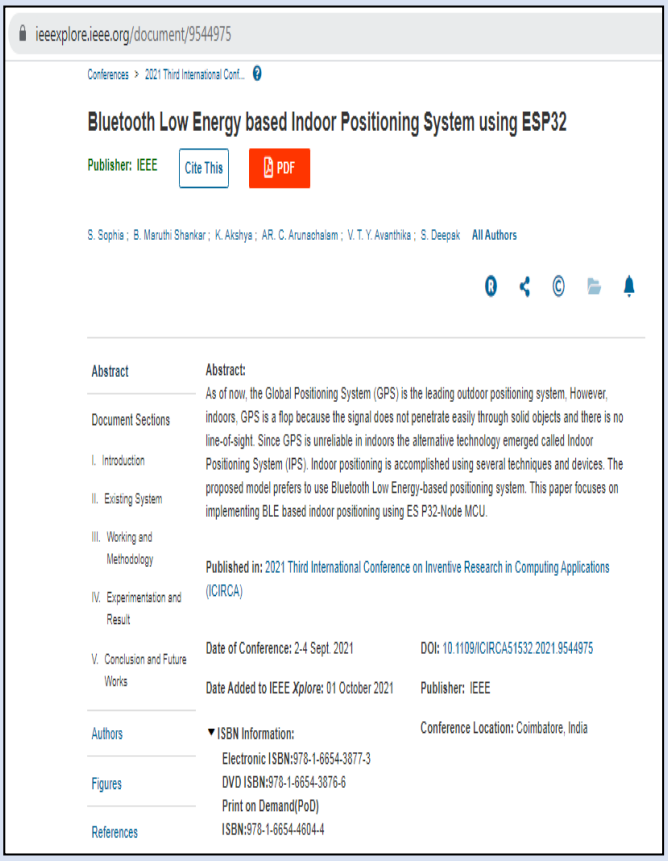
R&D | PAPER PUBLICATION |ECE



ieeexplore.ieee.org/document/9544975

Conferences > 2021 Third International Conf...

Bluetooth Low Energy based Indoor Positioning System using ESP32

Publisher: IEEE | Cite This | PDF

S. Sophia ; B. Maruthi Shankar ; K. Akshya ; AR. C. Arunachalam ; V. T. Y. Avanthika ; S. Deepak All Authors

Abstract
Document Sections
I. Introduction
II. Existing System
III. Working and Methodology
IV. Experimentation and Result
V. Conclusion and Future Works
Authors
Figures
References

Abstract:
As of now, the Global Positioning System (GPS) is the leading outdoor positioning system. However, indoors, GPS is a flop because the signal does not penetrate easily through solid objects and there is no line-of-sight. Since GPS is unreliable in indoors the alternative technology emerged called Indoor Positioning System (IPS). Indoor positioning is accomplished using several techniques and devices. The proposed model prefers to use Bluetooth Low Energy-based positioning system. This paper focuses on implementing BLE based indoor positioning using ES P32-Node MCU.

Published in: 2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA)

Date of Conference: 2-4 Sept. 2021
DOI: 10.1109/ICIRCA51532.2021.9544975
Date Added to IEEE *Xplore*: 01 October 2021
Publisher: IEEE
▼ISBN Information:
Electronic ISBN:978-1-6654-3877-3
DVD ISBN:978-1-6654-3876-6
Print on Demand(PoD) ISBN:978-1-6654-4604-4
Conference Location: Coimbatore, India

ieeexplore.ieee.org/document/9544857

Conferences > 2021 Third International Conf...

Deep Convolution Neural Network and Random Forest Algorithm for BCI based Photo Imagery Learning

Publisher: IEEE | Cite This | PDF

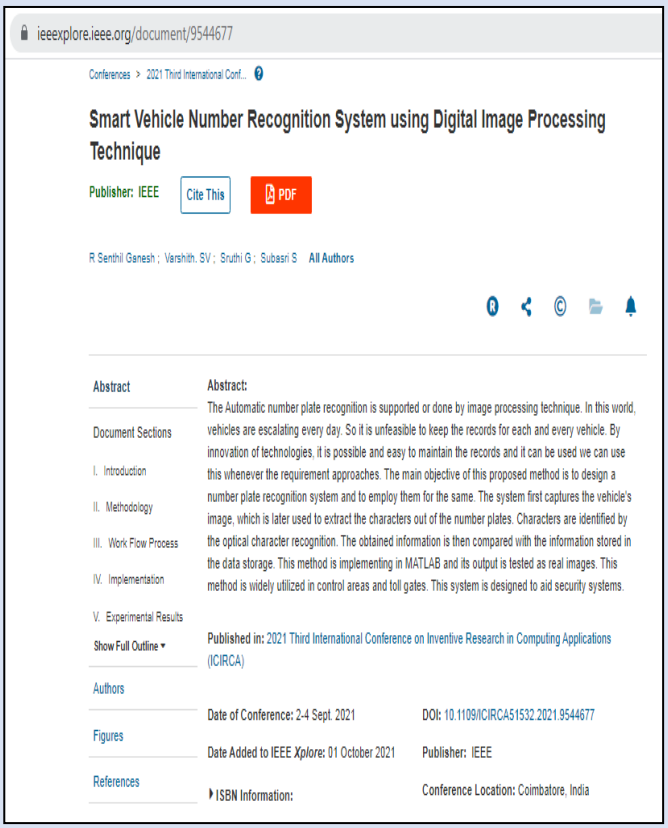
C. Thirumarai Selvi ; R. S. Sankarasubramanian ; P. Gnana Prakash ; R. Narendra Kumar ; K. Chandra Mohan All Authors

Abstract
Document Sections
I. Introduction
II. Related Works
III. Proposed Work
IV. Results and Discussion
V. Conclusion
Authors
Figures
References
Keywords

Abstract:
In a brain computer interface (BCI) based system, the motor imagery (MI) based classification of electrocorticograms (ECoGs) is proposed in this paper with deep neural network model. When compared to the traditional classification and feature extraction models, the proposed model offers improved performance. Classification is performed using traditional algorithm while feature extraction is performed using the deep learning algorithm in the proposed model. The data is trained and feature extraction is performed using deep convolution neural network (DCNN) and combined with Random Forest (RF) algorithm for classification of features. The brain activities are observed and feature information is obtained using the RF and DCNN algorithms. The human body action is used for obtaining classification results. BCI competition dataset is used for the performance evaluation of the proposed framework. This work opens new opportunities for BCI system based future research avenues with the combination of traditional algorithms and deep learning models.

Published in: 2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA)

Date of Conference: 2-4 Sept. 2021
DOI: 10.1109/ICIRCA51532.2021.9544857
Date Added to IEEE *Xplore*: 01 October 2021
Publisher: IEEE
▶ISBN Information:
Conference Location: Coimbatore, India



ieeexplore.ieee.org/document/9544677

Conferences > 2021 Third International Conf...

Smart Vehicle Number Recognition System using Digital Image Processing Technique

Publisher: IEEE | Cite This | PDF

R Senthil Ganesh ; Varshith. SV ; Sruthi G ; Subasri S All Authors

Abstract
Document Sections
I. Introduction
II. Methodology
III. Work Flow Process
IV. Implementation
V. Experimental Results
Show Full Outline
Authors
Figures
References

Abstract:
The Automatic number plate recognition is supported or done by image processing technique. In this world, vehicles are escalating every day. So it is unfeasible to keep the records for each and every vehicle. By innovation of technologies, it is possible and easy to maintain the records and it can be used we can use this whenever the requirement approaches. The main objective of this proposed method is to design a number plate recognition system and to employ them for the same. The system first captures the vehicle's image, which is later used to extract the characters out of the number plates. Characters are identified by the optical character recognition. The obtained information is then compared with the information stored in the data storage. This method is implementing in MATLAB and its output is tested as real images. This method is widely utilized in control areas and toll gates. This system is designed to aid security systems.

Published in: 2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA)

Date of Conference: 2-4 Sept. 2021
DOI: 10.1109/ICIRCA51532.2021.9544677
Date Added to IEEE *Xplore*: 01 October 2021
Publisher: IEEE
▶ISBN Information:
Conference Location: Coimbatore, India

ieeexplore.ieee.org/document/9544966

Conferences > 2021 Third International Conf...

Design of an Efficient User Interface for Ubiquitous Soft Computing Environment

Publisher: IEEE | Cite This | PDF

Blesslin Sheeba. T ; T. Sujatha ; S.P. Premnath ; V. Devi ; A. Beno ; S. Suma Christal Mary All Authors

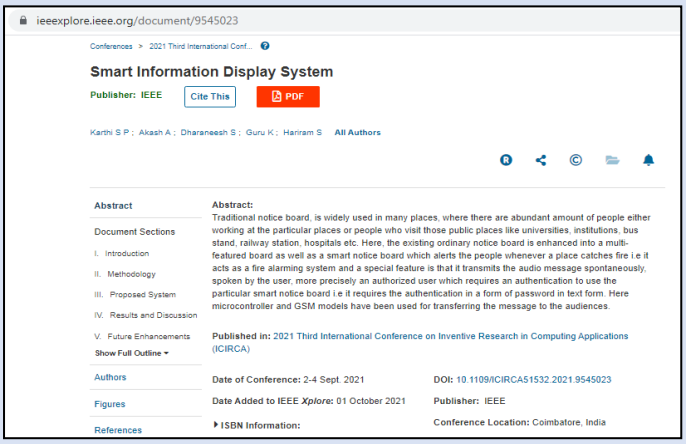
Abstract
Document Sections
I. Introduction
II. Literature Review
III. Proposed Fuzzy Agent Ubiquitous Computing (FAUC) Model
IV. Results and Discussions
V. Conclusion
Authors
Figures
References
Keywords

Abstract:
The Fuzzy Agent Computing System is a competitive way of establishing an interactive middleware component in a Ubiquitous Computing Environment (UCE). However, there are some difficulties faced along the way such as high component building time imposed on users working in a heterogeneous environment and also high memory consumption. To make the middleware adapt to the users benefit, the proposed fuzzy agent computing system attempts to work in an online deep-rooted learning methodology. The purpose of this work is to establish a full-fledged connection between the data innovation gear and the individuals with the help of UCE devices in an undetectable network. It ensures that users prerequisites are fulfilled with this dynamically built computational environment. Because of the vast database available online without metadata repository and ontology, finding the apt service that will meet customers' requirements, proves to be a hassle. To aid the end users with the necessary services, a fuzzy agent computing system in an ubiquitous computing environment is proposed in this work resulting in reduced CBT and MC. This work focuses on the communication between the device and the user to create quick access to the administration and elements available in the Ubiquitous Computing Environment.

Published in: 2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA)

Date of Conference: 2-4 Sept. 2021
DOI: 10.1109/ICIRCA51532.2021.9544966
Date Added to IEEE *Xplore*: 01 October 2021
Publisher: IEEE
▶ISBN Information:
Conference Location: Coimbatore, India

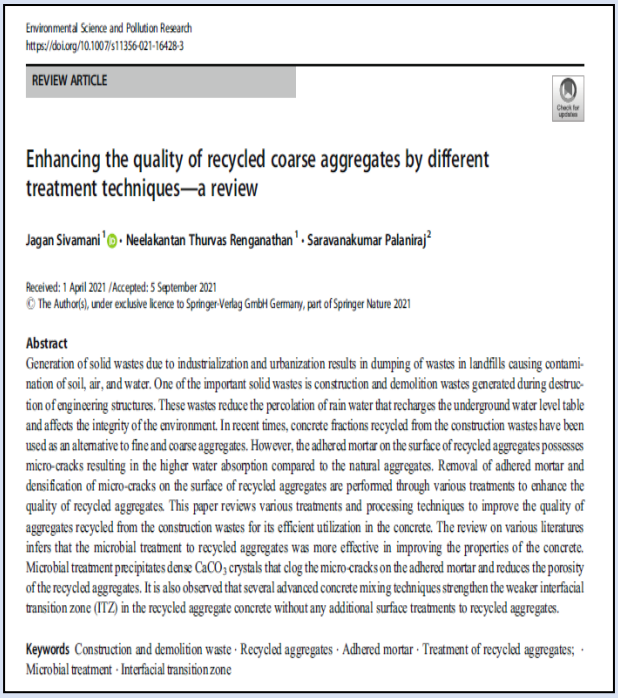
R&D | PAPER PUBLICATION |ECE



Following faculty members and students from the Department of **ECE** have presented and published papers in the 2021 Third International Conference on **Inventive Research in Computing Applications** (ICIRCA). It is a Scopus Indexed IEEE Conference.

Name of the Authors	Title of the Paper
Dr.S.Sophia, Dr.B.Maruthi Shankar, K.Akshya, AR.C. Arunachalam, V.T. Y. Avanthika, S.Deepak	Bluetooth Low Energy based Indoor Positioning System using ESP32
Dr.C.Thirumarai Selvi, R.S.Sankarasubramanian, P.Gnana Prakash, R.Narendra Kumar, K.Chandra Mohan	Deep Convolution Neural Network and Random Forest Algorithm for BCI based Photo Imagery Learning
Dr.R.Senthil Ganesh, Varshith.SV, Sruthi.G, Subasri.S	Smart Vehicle Number Recognition System using Digital Image Processing Technique
Mr.S.P. Premnath, Blesslin Sheeba.T, T.Sujatha, V.Devi, A.Beno, S.Suma Christal Mary	Design of an Efficient User Interface for Ubiquitous Soft Computing Environment
Ms. Anishfathima B, Sreenithi B, Swathi J, Trisha S, Sindhu Priya M	Wide Range Omni-Directional Intelligent Navigation System for the Visually Impaired
Mr.S.P.Karthi, Akash, Dharaneesh S, Guru K, Hariram S	Smart Information display system

R&D | JOURNAL PUBLICATION | CIVIL



Environmental Science and Pollution Research
https://doi.org/10.1007/s11356-021-16428-3

REVIEW ARTICLE

Enhancing the quality of recycled coarse aggregates by different treatment techniques—a review

Jagan Sivamani[1] · Neelakantan Thurvas Renganathan[1] · Saravanakumar Palaniraj[2]

Received: 1 April 2021 / Accepted: 5 September 2021
© The Author(s), under exclusive licence to Springer-Verlag GmbH Germany, part of Springer Nature 2021

Abstract

Generation of solid wastes due to industrialization and urbanization results in dumping of wastes in landfills causing contamination of soil, air, and water. One of the important solid wastes is construction and demolition wastes generated during destruction of engineering structures. These wastes reduce the percolation of rain water that recharges the underground water level table and affects the integrity of the environment. In recent times, concrete fractions recycled from the construction wastes have been used as an alternative to fine and coarse aggregates. However, the adhered mortar on the surface of recycled aggregates possesses micro-cracks resulting in the higher water absorption compared to the natural aggregates. Removal of adhered mortar and densification of micro-cracks on the surface of recycled aggregates are performed through various treatments to enhance the quality of recycled aggregates. This paper reviews various treatments and processing techniques to improve the quality of aggregates recycled from the construction wastes for its efficient utilization in the concrete. The review on various literatures infers that the microbial treatment to recycled aggregates was more effective in improving the properties of the concrete. Microbial treatment precipitates dense $CaCO_3$ crystals that clog the micro-cracks on the adhered mortar and reduces the porosity of the recycled aggregates. It is also observed that several advanced concrete mixing techniques strengthen the weaker interfacial transition zone (ITZ) in the recycled aggregate concrete without any additional surface treatments to recycled aggregates.

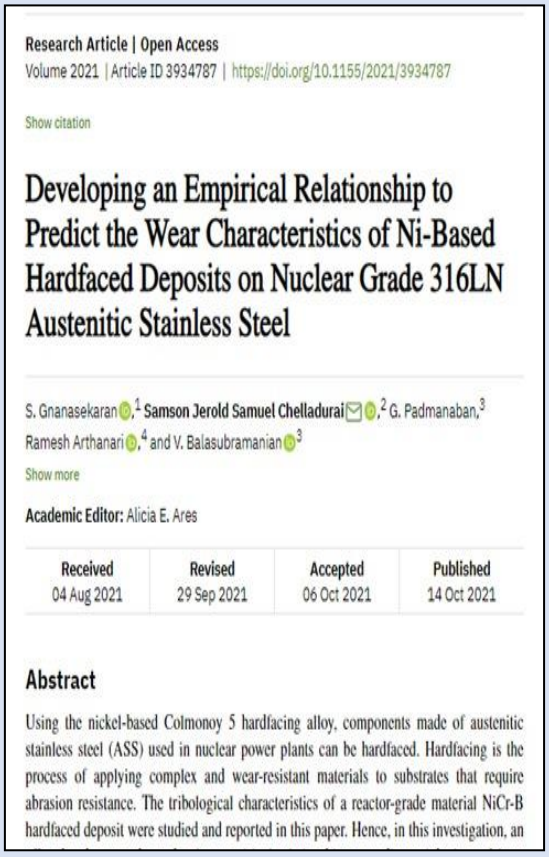
Keywords Construction and demolition waste · Recycled aggregates · Adhered mortar · Treatment of recycled aggregates; · Microbial treatment · Interfacial transition zone

Dr.P.Saravanakumar, Associate Professor, Department of **Civil Engineering** has published a Research Article titled **"Enhancing the quality of recycled coarse aggregates by different treatment techniques — a review"** in Environmental Science and Pollution Research. It is indexed in SCI & WoS with an impact factor of 4.3.

R&D | SCIENTIFIC RESEARCH ARTICLE PUBLICATION | MECH

Dr.C.Samson Jerold Samuel, Associate Professor of **Mechanical Engineering** Department has published a Scientific Research Article entitled **"Developing an Empirical Relationship to Predict the Wear Characteristics of Ni-Based Hardfaced Deposits on Nuclear Grade 316LN Austenitic Stainless Steel"** in Advances in Materials Science and Engineering publication by Hindawi. The journal is listed in Anna University Annexure 1 (Impact Factor: 1.726), Indexed in SCI and Scopus.

Link of the article:
https://www.hindawi.com/journals/amse/2021/3934787/



Research Article | Open Access
Volume 2021 | Article ID 3934787 | https://doi.org/10.1155/2021/3934787

Show citation

Developing an Empirical Relationship to Predict the Wear Characteristics of Ni-Based Hardfaced Deposits on Nuclear Grade 316LN Austenitic Stainless Steel

S. Gnanasekaran[1], Samson Jerold Samuel Chelladurai[2], G. Padmanaban[3], Ramesh Arthanari[4], and V. Balasubramanian[3]

Show more

Academic Editor: Alicia E. Ares

Received	Revised	Accepted	Published
04 Aug 2021	29 Sep 2021	06 Oct 2021	14 Oct 2021

Abstract

Using the nickel-based Colmonoy 5 hardfacing alloy, components made of austenitic stainless steel (ASS) used in nuclear power plants can be hardfaced. Hardfacing is the process of applying complex and wear-resistant materials to substrates that require abrasion resistance. The tribological characteristics of a reactor-grade material NiCr-B hardfaced deposit were studied and reported in this paper. Hence, in this investigation, an

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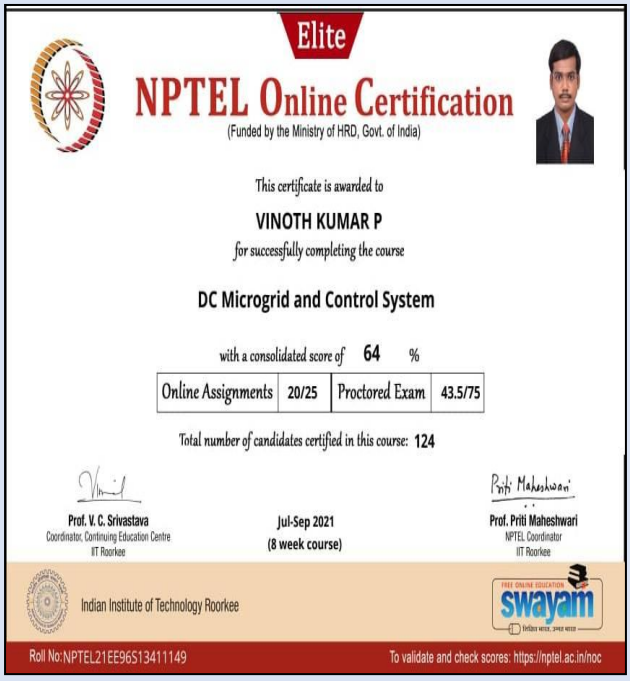
EEE | NPTEL CERTIFICATION


Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

VINOTH KUMAR P

for successfully completing the course

DC Microgrid and Control System

with a consolidated score of 64 %

Online Assignments	20/25	Proctored Exam	43.5/75

Total number of candidates certified in this course: 124

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Jul-Sep 2021
(8 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee

swayam

Roll No:NPTEL21EE96S13411149

To validate and check scores: https://nptel.ac.in/noc

Dr.P.Vinoth Kumar, Associate Professor, **EEE** Department has successfully completed "**DC Microgrid and Control System**" an online course authorized by **Indian Institute of Technology Roorkee (IIT – Roorkee),** and offered by **NPTEL – Swayam portal.**

EEE | NPTEL CERTIFICATION

Mrs.D.Gunapriya, Assistant Professor, **EEE** Department has successfully completed "**Technologies for Clean and Renewable Energy Production**" an online course authorized by **Indian Institute of Technology Roorkee (IIT – Roorkee),** and offered by NPTEL – Swayam portal.


NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

GUNAPRIYA DEVARAJAN

for successfully completing the course

Technologies for Clean and Renewable Energy Production

with a consolidated score of 55 %

Online Assignments	20/25	Proctored Exam	34.5/75

Total number of candidates certified in this course: 312

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Jul-Sep 2021
(8 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee

swayam

Roll No:NPTEL21CH42S23314100

To validate and check scores: https://nptel.ac.in/noc

MCT | ATAL FDP ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Mr.P.M.Arunkumar, Assistant Professor**, MCT** has participated in the AICTE- Training and Learning (ATAL) Academy online Elementary FDP on **"Artificial Intelligence and Machine Learning"** from 04.10.2021 to 08.10.2021 organized by National Institute of Technology Raipur.


No: ATAL/2021/1630650533

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that P.M.Arunkumar, Assistant Professor of Sri Krishna College of Engineering and Technology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence and Machine Learning" from 04/10/2021 to 08/10/2021 at National Institute of Technology Raipur.

Advisor-I, ATAL Academy
Mamta Rani Agarwal

Coordinator

CSE | ATAL FDP ON INTERDISCIPLINARY SMART APPLICATION OF INTERNET OF THINGS, CLOUD COMPUTING AND DATA ANALYTICS TECHNOLOGIES


ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that G.Renugadevi, Assistant Professor of Sri Krishna College of Engineering and TEchnology participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Interdisciplinary Smart Application of Internet of Things, Cloud Computing and Data Analytics Technologies" from 04/10/2021 to 08/10/2021 at School of Studies in Engineering and Technology.

Advisor-I, ATAL Academy
Mamta Rani Agarwal

Coordinator

Ms.G.Renugadevi, Assistant Professor, **CSE** has participated in the AICTE Training and Learning (ATAL) Academy Online Advanced FDP on "**Interdisciplinary Smart Application of Internet of Things, Cloud Computing and Data Analytics Technologies**" from 04.10.2021 to 08.10.2021 organized by School of Studies in Engineering and Technology.

MECH | ORIENTATION/REFRESHER PROGRAM ON EMERGING TRENDS IN MECHANICAL ENGINEERING

Certificate

This is to certify that ***RANJITH KUMAR S*** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"Emerging Trends in Mechanical Engineering"*** held during **12.04.2021** to **17.04.2021** organized by ***Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, Haryana.***

Director (FDC) AICTE, ND | Executive Secretary ISTE, ND | Program Coordinator MM Deemed Univ., Ambala | Principal MM Deemed Univ., Ambala

Certificate

This is to certify that ***ARUN KURIEN REJI*** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"Emerging Trends in Mechanical Engineering"*** held during **12.04.2021** to **17.04.2021** organized by ***Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, Haryana.***

Director (FDC) AICTE, ND | Executive Secretary ISTE, ND | Program Coordinator MM Deemed Univ., Ambala | Principal MM Deemed Univ., Ambala

Certificate

This is to certify that ***DHIYANESWARAN J*** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"Emerging Trends in Mechanical Engineering"*** held during **12.04.2021** to **17.04.2021** organized by ***Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, Haryana.***

Director (FDC) AICTE, ND | Executive Secretary ISTE, ND | Program Coordinator MM Deemed Univ., Ambala | Principal MM Deemed Univ., Ambala

Certificate

This is to certify that ***BASKARAN J*** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on ***"Emerging Trends in Mechanical Engineering"*** held during **12.04.2021** to **17.04.2021** organized by ***Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala, Haryana.***

Director (FDC) AICTE, ND | Executive Secretary ISTE, ND | Program Coordinator MM Deemed Univ., Ambala | Principal MM Deemed Univ., Ambala

Dr. V P Srinivasan, Mr. Arun Kurien Reji, Mr. Ranjith Kumar, Mr. J. Baskaran and **Mr. J. Dhiyaneshwaran,** Assistant Professors of **Mechanical Engineering** Department have successfully completed AICTE-ISTE approved Orientation/Refresher Program on **'Emerging Trends in Mechanical Engineering'** organized by Maharishi Markandeshwar (Deemed to be University) from 12.04.2021 to 17.04.2021.

CSE | COURSERA CERTIFICATION

Mr.S.Suresh Kumar, Assistant Professor, **CSE** has successfully completed the online course titled **"Basic Skills in Constructive Communication"** authorized by Peter the Great St. Petersburg Polytechnic University, offered through Coursera.

EEE| FDP ON CONTROL TECHNIQUES IN ELECTRIC VEHICLES AND BATTERY MANAGEMENT

Dr. P. Vinoth Kumar, Associate Professor, **EEE** Department has participated in the Five days AICTE Training and Learning (ATAL) Faculty Development Programme (FDP) on **"Control Techniques in Electric Vehicles and Battery Management"** organized by VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad from 04-10-21 to 08-10-21.

S & H|COURSERA CERTIFICATION

Dr.Karthika A, Ms.Preethi N and **Ms.Revathy P** , Assistant Professors, Department of **Science and Humanities** have successfully completed an online certification course entitled **"Air Pollution- a Global Threat to our Health"** authorized by the University of Copenhagen, offered through Coursera.

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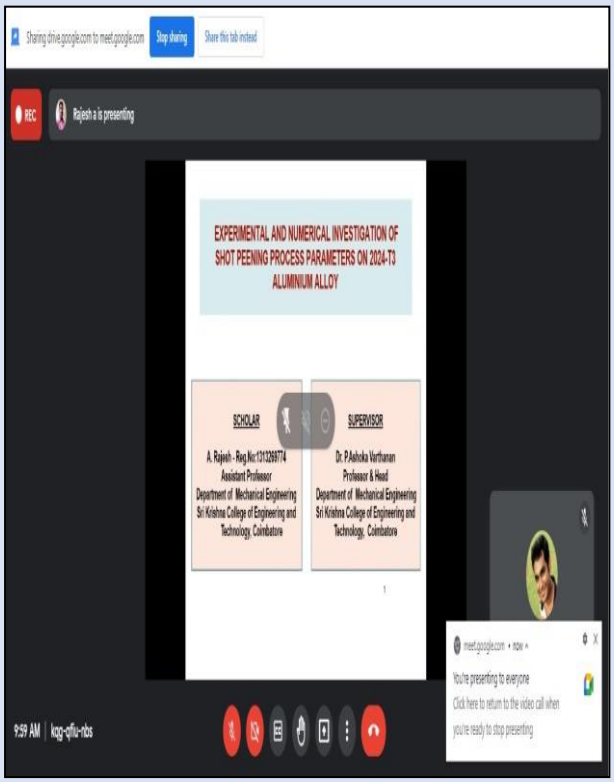
MECH | PH.D VIVA VOCE



Mr.A.Rajesh, Assistant Professor, **Mechanical Engineering** has completed his Ph.D viva - voce titled **'Experimental and Numerical investigation of shot peening process parameters on 2024 - T3 aluminium alloy'** under the supervision of **Dr.P.Ashoka Varthanan**, Head, **Mechanical Engineering**. The scholar has been graded as highly commended for his research work by the examiners.

ECE| CONFERENCE- SESSION CHAIR

Dr.M.Ramkumar, Assistant Professor, Department of **ECE,** has chaired a Technical Session for the First **International Conference on Smart, Communication and Robotics** (IEEE-STCR 2021) organized by Bannari Amman Institute of Technology during 09.10.2021 to 10.10.2021.


Stay Ahead

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Sathyamangalam- 638 401, Tamilnadu, India

CERTIFICATE OF APPRECIATION

This is to certify that

Dr M Ramkumar

Sri Krishna College of Engineering and Technology

has chaired a technical session for the First International Conference on Smart Technologies, Communication and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE (09 – 10 October 2021).

The Organising Committee of IEEE-STCR 2021would like to place on record their deep sense of gratitude for the whole hearted support extended to the conference.

Dr. C. Poongodi
HoD/ECE

Dr. C. Ganesh Babu
HoD/EIE

Dr. C. Palanisamy
Principal

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CSE | INTERNATIONAL CONFERENCE- REVIEWER

Dr.P.Mohan Kumar, Professor, **CSE** has received a Certificate of Appreciation for reviewing the papers in the "**Third International Conference on Machine Learning and Intelligent Systems (MLIS 2021)"** to be held in Xiamen, China during 8.11.2021 to 11.11.2021.

The 3rd International Conference on Machine Learning and Intelligent Systems (MLIS 2021)

Review Certificate

2021/10/13

To Whom It May Concern,
By this letter, I would like to explain the contributions of *Dr. Mohan Kumar* from *Professor/ CSE, Sri Krishna College of Engineering and Technology, Coimbatore* as a Peer Reviewer of *The 3rd International Conference on Machine Learning and Intelligent Systems (MLIS 2021)* to be held in *xiamen, China* during *8-11 November 2021.*

For each manuscript submitted to the Proceedings of the conference, it is required that at least two excellent reviewers who are not only competent in the technology but also are familiar with the existing literature. Their role is finally to determine if the submitted manuscript has a high scientific level and is worth publication.

Dr. Mohan Kumar has provided excellent feedback on the following article
Using a Fuzzy Comprehensive Evaluation Method to Assess Environmental Comfort for Nursing Sow
after carefully analyzing the merits of the paper with regards to scope, applications, research methodology, experimental techniques, and verification of mathematical equations, data interpretation, and grammar.

Dr. Mohan Kumar's substantial contributions to maintain the standards of the Conference are greatly appreciated.

Sincerely,
MLIS 2021 Organizing Committee
info@machinelearningconf.org
www.machinelearningconf.org

IT | INTERNATIONAL CONFERENCE- REVIEWER

Karunya DEEMED UNIVERSITY
ICBDCC21

Certificate of Recognition

This is to certify that

DR. S. DURGA

Sri Krishna college of engineering and technology

has actively served as a reviewer in the 4th International Conference on Big Data and Cloud Computing organized by the Department of Computer Science and Engineering, Karunya Institute of Technology and Sciences during 20 & 21 August 2021

Publication Partner
Springer

Conference Chair

Karunya DEEMED UNIVERSITY
ICBDCC21

Certificate of Recognition

This is to certify that

DR. DEEPA KANMANI

Sri Krishna College of Engineering and Technology

has actively served as a reviewer in the 4th International Conference on Big Data and Cloud Computing organized by the Department of Computer Science and Engineering, Karunya Institute of Technology and Sciences during 20 & 21 August 2021

Publication Partner
Springer

Conference Chair

Dr.S.Durga and **Dr.Deepa Kanmani**, Associate Professors, Department of **Information Technology**, have served as a reviewer in the 4th International Conference on **Big Data and Cloud Computing** organized by the Department of Computer Science and Engineering, Karunya Institute of Technology and Sciences.

CSBS|DATA SCIENCE WRITER OF THE YEAR 2021

Dr.S.Balakrishnan, Professor and Head, Department of **Computer Science and Business System** has been awarded with **Data Science Writer of the Year 2021** by Data Science Foundation, for creating and sharing his knowledge and understanding on Data Science.

EEE | JURY PANEL MEMBER

Dr. B. Karthikeyan, Associate Professor, Department of **EEE** has been the Jury Panel Member in the event "**PROJECTRO**" organized by WIE Affinity Group of Jeppiaar Institute of Technology and College of Engineering Poonjar held on 30-09-2021.

AI&DS| TOYCATHON 2021- JUDGE

Dr. Sajeev Ram Arumugam, Associate Professor, **AI & DS** has received a certificate of appreciation for his exceptional contribution as a judge in Toycathon 2021.

HEALTHOGRAPHICS

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MCT| CONFERENCE PRESENTATION

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CERTIFICATE

This is to certify that the author **Aswinkumar K** has presented a paper entitled

Design and Fabrication of Automated Cloth Pulling Machine for Shed Work

at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.

Dr. C. Poongodi, HoD/ECE | Dr. C. Ganesh Babu, HoD/EIE | Dr. C. Palanisamy, Principal

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CERTIFICATE

This is to certify that the author **Ajith Kumaran V** has presented a paper entitled

Design and Fabrication of Automated Cloth Pulling Machine for Shed Work

at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.

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CERTIFICATE

This is to certify that the author **Ajai R** has presented a paper entitled

Design and Fabrication of Automated Cloth Pulling Machine for Shed Work

at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.

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CERTIFICATE

This is to certify that the author **Adithyan M** has presented a paper entitled

Design and Fabrication of Automated Cloth Pulling Machine for Shed Work

at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.

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K.AswinKumar, V.Ajith Kumaran, R.Ajai, M.Adhityan, students of **Final** year **MCT** have presented a paper entitled, "**Design and Fabrication of Automated Cloth Pulling machine for Shed Work**", in the International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR-2021) during 9th and 10th October 2021 organized by Department of ECE, EIE & EEE, Bannari Amman Institute of Technology, Sathyamangalam.

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CERTIFICATE
This is to certify that the author **Prawin Sankar T A** has presented a paper entitled
Technology in Design Aspect of BIN Bot Robot
at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.
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CERTIFICATE
This is to certify that the author **Prince Paul** has presented a paper entitled
Technology in Design Aspect of BIN Bot Robot
at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.
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CERTIFICATE
This is to certify that the author **Saktheeswaran G** has presented a paper entitled
Technology in Design Aspect of BIN Bot Robot
at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.
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CERTIFICATE
This is to certify that the author **Shibin Thomas S** has presented a paper entitled
Technology in Design Aspect of BIN Bot Robot
at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.
Dr. C. Poongodi HoD/ECE | Dr. C. Ganesh Babu HoD/EIE | Dr. C. Palanisamy Principal
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Sathyamangalam- 638 401, Tamilnadu, India
CERTIFICATE
This is to certify that the author **Vibunesh N T** has presented a paper entitled
Technology in Design Aspect of BIN Bot Robot
at the First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021) organised by the Department of ECE, EIE & EEE during 09 – 10 October 2021.
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T.A.Prawin Sankar, Prince Paul, G.Saktheeswaran, S.Shibin Thomas and **N.T.Vibunesh,** students of **Final** year **MCT** have presented a paper entitled, **"Technology in Design Aspect of BIN Bot Robot",** in the International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR-2021) during 9th and 10th October 2021 organized by the Department of ECE, EIE & EEE, Bannari Amman Institute of Technology, Sathyamangalam.

SOM | CONFERENCE PRESENTATION

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Coimbatore, Tamil Nadu, India

DEPARTMENT OF MANAGEMENT STUDIES

Certificate of Appreciation

Muthukrishnan R

AP / SOM

has been presented a paper entitled

A Study on Purchase Intention of Consumers towards selected Luxury Fashion products with reference to Coimbatore city

in the TWO - DAY INTERNATIONAL CONFERENCE on

'ENTERPRISE MANAGEMENT AND BUSINESS INTELLIGENCE' (ICEMBI 2021)

held on October 8 & 9, 2021 in Virtual Mode.

Dr R Indumathy, Convener | Dr P Saradhamani, HoD | Dr P R Muthuswamy, Director - Academics | Dr S U Prabha, Principal

Mr.R.Muthukrishnan, Assistant Professor, **School of Management** has participated in the Two days International Conference on **Enterprise Management and Business Intelligence (ICEMBI 2021)** and has presented a paper entitled **"A Study on the Purchase Intention of Consumers towards selected Luxury Fashion Products with reference to Coimbatore City"** on 8th and 9th October 2021 organized by Department of Management Studies, Dr N G P Institute of Technology, Coimbatore.

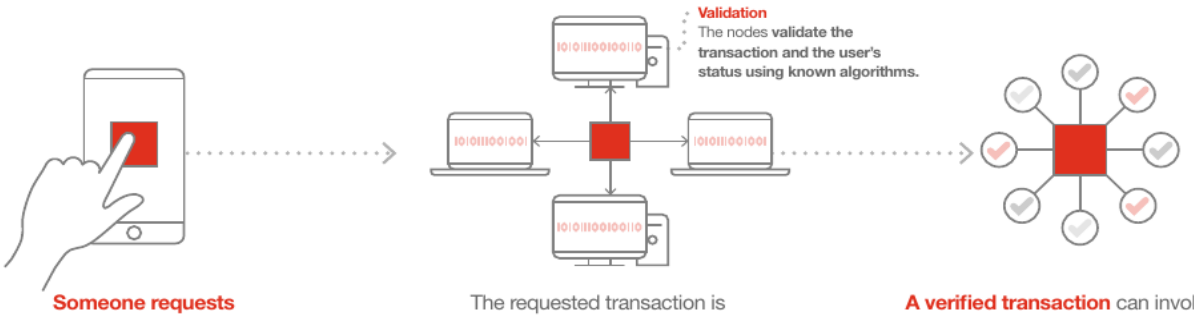
LEGENDARY INSIGHTS

INFOGRAPHICS
BLOCKCHAIN TECHNOLOGY

Blockchain fundamentals

A blockchain is a distributed, tamperproof digital ledger.

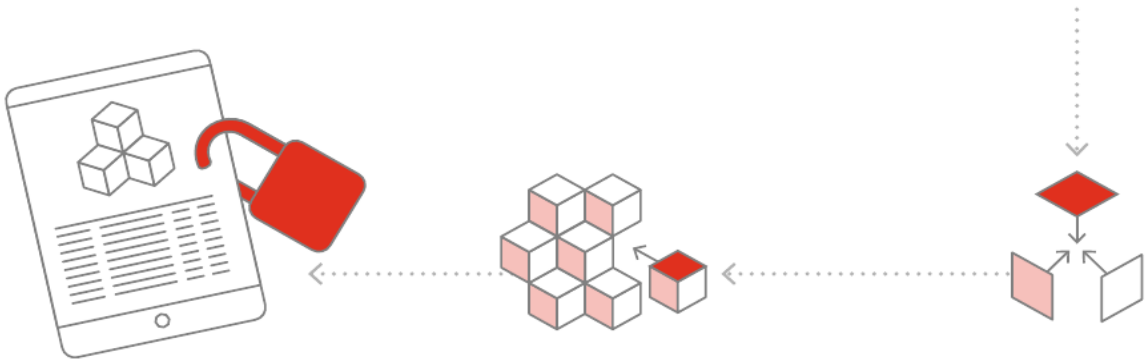
Transactions are verified through *consensus* — participants confirm changes with one another—and *cryptography* ensures the integrity and security of the information. This eliminates the need for a central certifying authority. Blockchain can be used for a range of business processes and is also the foundation for new industry ecosystems.



Someone requests a transaction.

The requested transaction is broadcast to a peer-to-peer **network consisting of nodes.**

A verified transaction can involve cryptocurrency and other **digital tokens,** records, or other information.



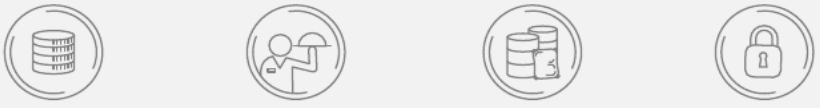
The transaction is complete.

The new block is then added to the existing blockchain, in a way that is permanent and unalterable.

Once verified, the transaction is combined with other transactions **to create a new block of data for the ledger.**

Digital tokens

Digital representations of assets, securities, and currencies, which can be used to fractionalize asset ownership, increase liquidity, and improve transaction speeds among token holders.



Currency tokens
Like Bitcoin and Ether, these are payment consideration similar to traditional fiat currencies.

Utility tokens
Right to goods or services, such as data storage, advertising rights, or energy propositions.

Commodity tokens
Rights to the value of an underlying commodity, such as oil or coffee beans.

Security tokens
Investment interest in a company, including entitlement to profits or rise in company value.