

WEEKLY NEWSLETTER

15 - 19 JUN€ 2020



## SPECIAL ISSUE - 4

## **EDITOR - IN - CHIEF**

Dr Srinivasan Alavandar,

Principal

### **EDITORIAL TEAM**

Ms S Soundarya, CSE

Ms S Thenmozhi, ECE

Mr N SethuNarayanan, S & H



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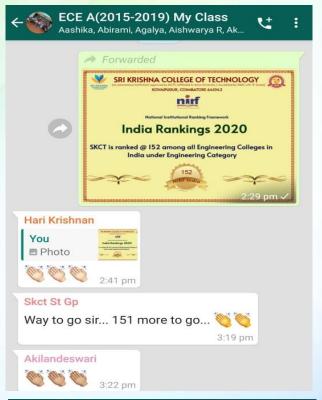




**PATENTING** 

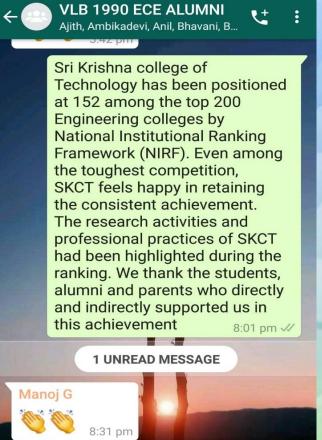


## NIRF | ALUMNI COMPLIMENTS - NIRF RANKING 2020

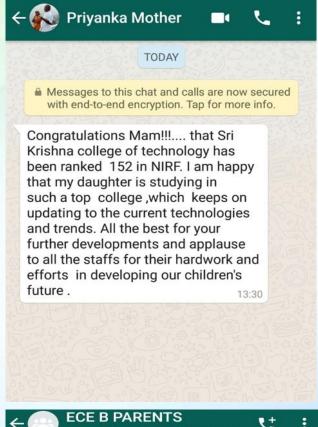


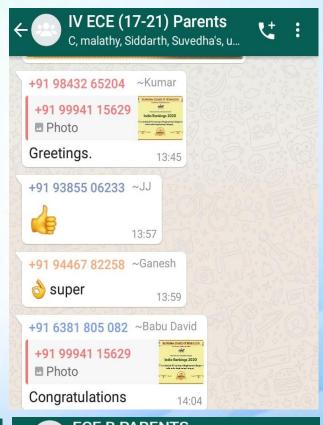


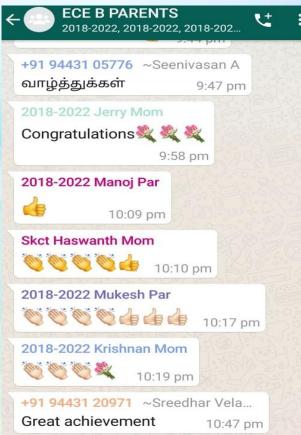




## NIRF | PARENTS' COMPLIMENTS - NIRF RANKING 2020



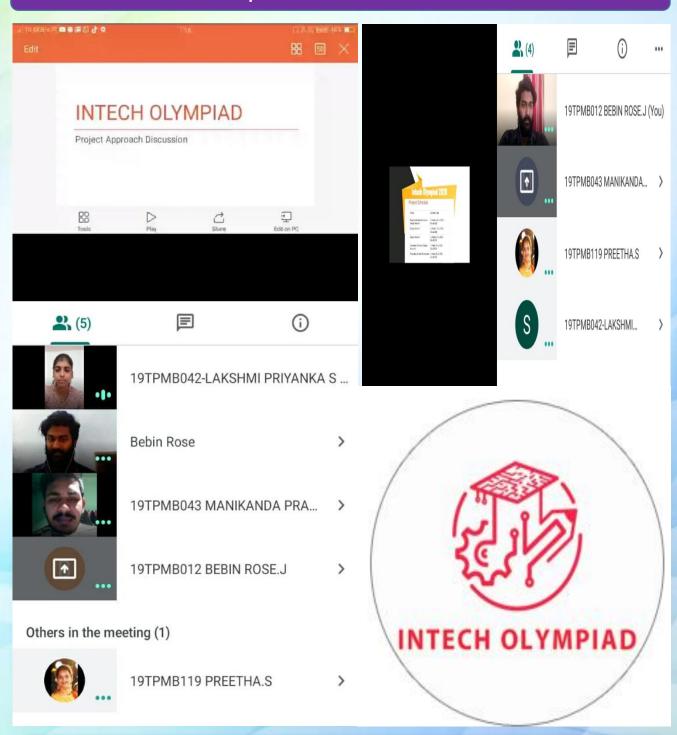








## **SOM | ONLINE INTERNSHIP**



Mr Bebin Rose, Ms Lakshmi Priyanka, Mr Manikanda Prathap, and Ms Preetha of Second Year MBA are undergoing an Online Internship with "Integrated Technology Olympiad–2021".

## ECE | WORKSHOP ON ARDUINO PROGRAMMING AND APPLICATIONS FOR BEGINNERS



Microchip-SNIST-Arduino 2.0 - 307





ONE WEEK ONLINE WORKSHOP ON

# ARDUINO PROGRAMMING AND APPLICATIONS FOR BEGINNERS





This is to certify that Karthikeyan G, Student (UG), ECE, Skct

has participated in one week online workshop on "ARDUINO PROGRAMMING AND APPLICATIONS FOR BEGINNERS" during June 8-13, 2020 organized by *SNIST-Microchip* Academy, Department of ECE, Sreenidhi Institute of Science and Technology, Hyderabad.

Mr.G. Prasad Acharya COORDINATOR MICROCHIP CERTIFIED TRAINER

e Maria

Dr.V. Kumara Swamy COORDINATOR MICROCHIP CERTIFIED TRAINER Dr.S.P.V.Subba Rao HEAD, DEPT. OF ECE Dr.T.Ch.Siva Reddy PRINCIPAL SNIST, HYDERABAD Dr.P.Narasimha Reddy EXECUTIVE DIRECTOR SNIST, HYDERABAD

Mr G Karthikeyan of Second Year B.E. ECE A Section received a Certificate for attending a one-week Online Workshop on "Arduino Programming and Applications for Beginners" organized by SNIST-Microchip Academy, Sreenidhi Institute of Science and Technology, Hyderabad during 8 - 13 June 2020.



## IT | INTERNATIONAL E-CONFERENCE ON GREEN TECHNOLOGIES



## St. Peter's Institute of Higher Education and Research

(Deemed to be university Declared u/s 3 of the UGC Act 1956 )
(NAAC accredited, AICTE approved, ISO 9001:2015)
Avadi, Chennai-600054, India



## International e-Conference on

Green Technologies for Power Generation, Communication and Health Care 6th June 2020

This is to certify that Prof./Dr./Mr./Ms Dr D. Jeyabharathi of Sri Krishna College of Technology has Participated/presented a paper titled 10T based Automatic Animal -Vehicle Collision Detection and Avoidance System in International e-Conference on Green Technologies for Power generation, Communication and Health Care on 6th June, 2020 organized by Department of ECE, EEE & BME at SPIHER, Chennai, India.

Dr.R.Rani Hemamalini
Co-Organizing Chair

Dr.G.R.Suresh
Co-Organizing Chair

Dr.G.P.Ramesh Organizing Chair Dr.J.M.Mathana General Chair

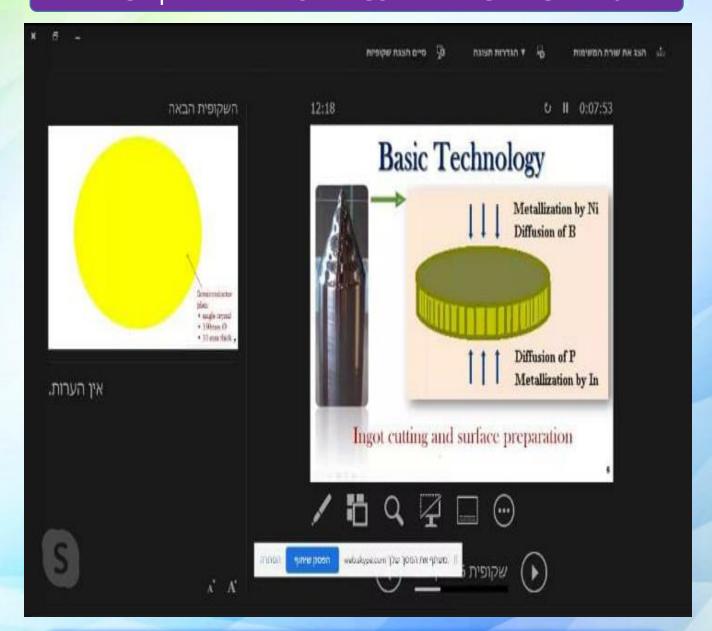
Dr D Jeyabharathi, Asst. Professor, Dept. of IT, presented a paper titled "IOT Based Automatic Animal – Vehicle Collision Detection and Avoidance System" in the International e-Conference on Green Technologies for Power Generation, Communication and Health Care on 06 June 2020 organized by St. Peter's Institute of Higher Education and Research, Chennai.

## IT | ONLINE COURSE ON MACHINE LEARNING

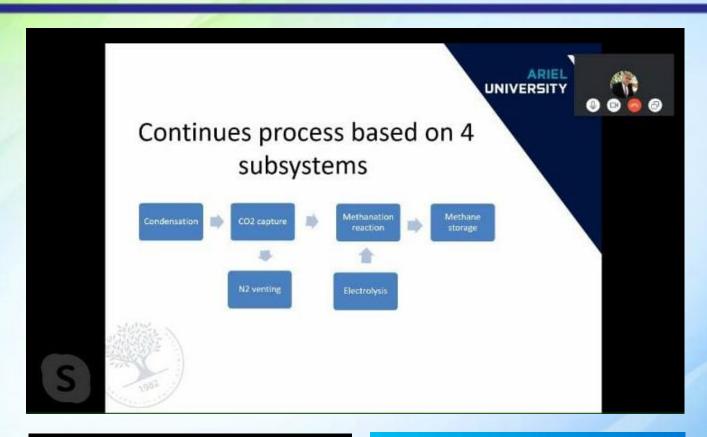


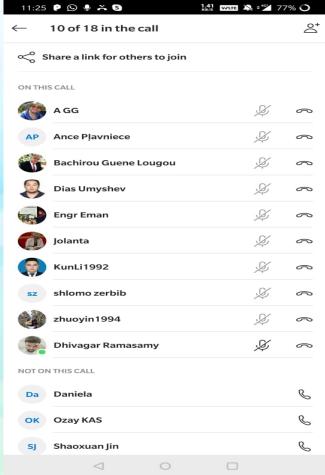
Dr R Kanmani, Assoc. Professor, Dept. of IT, completed an Online Course on "Machine Learning" authorized by Stanford University and offered through Coursera on 15 June 2020.

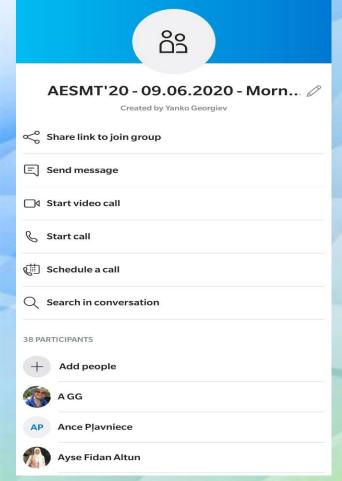
## **MECH | INTERNATIONAL CONFERENCE AESMT'20**



Dr M Mohanraj, Assoc. Professor and Mr R Dhivagar, Asst. Professor, Dept. of Mechanical Engineering attended the Third International Scientific Conference AESMT'20 on "Experimental Studies on Performance Enhancement of a Heat Pump-assisted Regenerative Solar Still with Heat Storage Materials" through Skype during 12-13 June 2020.









## **EEE | WEBINAR ON WEARABLE ELECTRONICS**





New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### CERTIFICATE OF PARTICIPATION

This is to certify that

### Mr./Ms./Dr.A GAYATHRI

of

### Sri Krishna College of Technology, Coimbatore

has participated in the International Webinar on
"WEARABLE ELECTRONICS FOR MEDICAL & DEFENCE APPLICATIONS"
hosted by Department of Electrical and Electronics Engineering, New Horizon College of Engineering,
Bangalore, Co-hosted by IEEE NHCE Student Branch, on 12th june-2020 from 10:00 AM to 11:30 AM



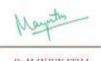


Dr.K C R NISHA

BRANCH
COUNCELLOR, IEEE
NHCE STUDENT
BRANCH



Dr.RAMKUMAR S
HEAD OF THE
DEPARTMENT/EEE



Dr.MANJUNATHA
PRINCIPAL

Ms Gayathri, Asst. Professor, Dept. of EEE participated in an International Webinar on "Wearable Electronics for Medical & Defence Applications" conducted by New Horizon College of Engineering, Bangalore along with IEEE NHCE Student Branch. The Session was facilitated by Dr L Ashokkumar, Associate Head & Professor, Dept. of EEE, PSG College of Technology, Coimbatore on 13 June 2020.

## IT | WEBINAR SERIES ON COVID 19 – IMPACT ON FUTURE MANAGER



### SCHOOL OF MANAGEMENT

D G Vaishnav College

knowledge partners



Business Standard Insight Out



# CERTIFICATE OF PARTICIPATION DGSOM CLOUD CONNECT

This is to certify that

## Ms Roopa V

of **Sri Krishna College of Technology** participated in the "Webinar Series - DGSOM Cloud Connect" organized by the School Of Management, D. G. Vaishnav College on the topic "COVID 19 - Impact on Future Manager" from June 1 to June 6, 2020.

Dr.U. Amaleshwari

Dr. R. Ganesan Principal

R. 12m

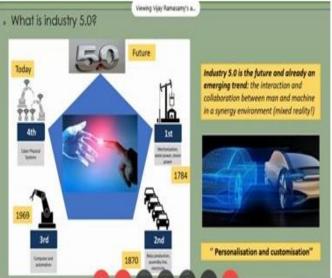
Shri. Ashok Kumar Mundhra Secretary

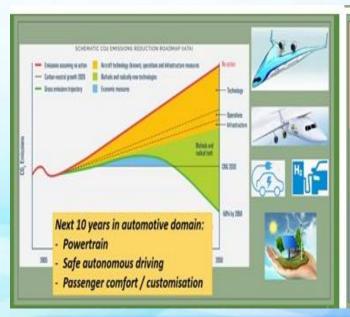
Jome lever

Ms V Roopa, Asst. Professor, Dept. of IT, participated in the webinar series "DGSOM Cloud Connect" on **"COVID 19 – Impact on Future Manager"** organized by D G Vaishnav College, Chennai during 01 - 06 June 2020.

## MECH | WEBINAR ON UPSKILLING FOR INDUSTRY 5.0 CHALLENGES









Students and Members of Faculty in the Dept. of Mechanical Engineering attended a Webinar on "Upskilling for Industry 5.0 Challenges" facilitated by Mr.R.Vijayakumar, Head, Advanced Numerical Simulations, Airbus Group, Bristol, United Kingdom through SAEISS on 14 June 2020.

## ICE | WEBINAR ON APPLICATION OF AI AND ML IN **PROCESS INDUSTRIES**







Department of Electronics & Instrumentation Engineering

International Society of Automation Bangalore Section

A 5 Day Webinar Series on

### TECHNOLOGIES SHAPING FUTURE AUTOMATION

15th June 2020 - 19th June 2020

Present this

## CERTIFICATE

### DILIP KUMAR S

SRI KRISHNA COLLEGE OF TECHNOLOGY

for active participation in the Webinar series on the topic APPLICATION OF AI & ML IN PROCESS INDUSTRIES

organised by the

Department of Electronics & Instrumentation Engineering of Kumaraguru College of Technology, Coimbatore in association with International Society of Automation (ISA), Bangalore Section held on Monday, 15th June 2020

Dr. M. Ezhilarasi

Kumaraguru College of Technology Kumaraguru College of Technology International Society of Automation

Principal

Dr. J. Srinivasan

Dr. Javesh Barve

Bangalore Section

Mr. S Dilip Kumar, Asst. Professor, Dept. of ICE attended a Webinar on "Application of AI & ML in Process Industries" organized by the Dept. of EIE, Kumaraguru College of Technology, Coimbatore on 15 June 2020.

## ICE | WEBINAR ON FUTURE TECHNOLOGY TOOLS- FOR A PROCESS AUTOMATION ENGINEER



Department of Electronics & Instrumentation Engineering

International Society of Automation Bangalore Section

A 5 Day Webinar Series on

### TECHNOLOGIES SHAPING FUTURE AUTOMATION

15th June 2020 - 19th June 2020

Present this

## CERTIFICATE

#### DILIP KUMAR S

SRI KRISHNA COLLEGE OF TECHNOLOGY

for his/her active participation in the Webinar series on the topic

### FUTURE TECHNOLOGY TOOLS - FOR A PROCESS AUTOMATION ENGINEER

organised by the

Department of Electronics & Instrumentation Engineering of Kumaraguru College of Technology, Coimbatore in association with International Society of Automation (ISA), Bangalore Section held on Tuesday, 16th June 2020

Dr. M. Ezhilarasi

Kumaraguru College of Technology Kumaraguru College of Technology International Society of Automation Coimbatore

Principal Dr. J. Srinivasan

Coimbatore

Dr. Jayesh Barve

Bangalore Section

Mr. S Dilip Kumar, Asst. Professor, Dept. of ICE, attended a Webinar Technology Tools- for a Process Automation "Future Engineer" organized by the Dept. of EIE, Kumaraguru College of Technology, Coimbatore on 16 June 2020.

## MECH | WEBINAR ON ALUMINIUM ALLOY NANO COMPOSITES AND ITS CHARACTERIZATION STUDIES



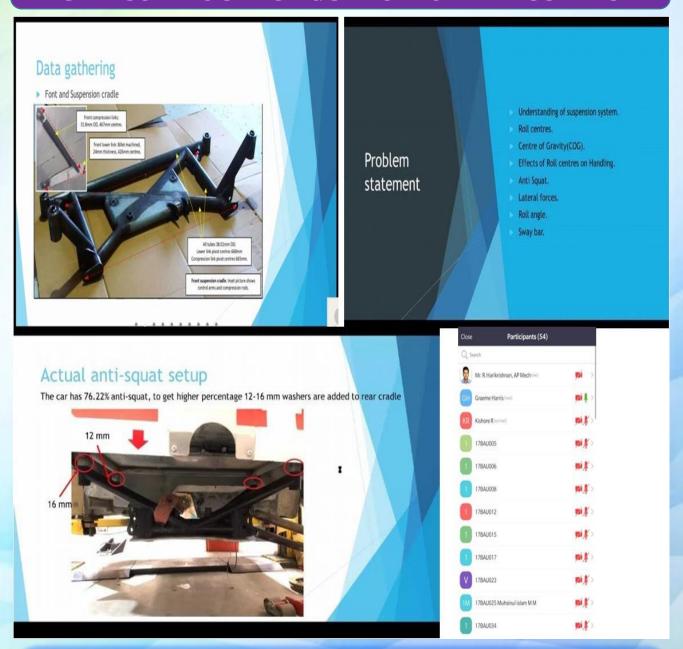
Mr K Vickram, Asst. Professor, Dept. of Mechanical Engineering, attended a webinar on "Aluminium Alloy Nano Composites and its Characterization Studies" organized by the Dept. of Mechanical Engineering, Kings College of Engineering, Thanjavur on 13 June 2020.

## **MECH | WEBINAR ON FUTURE EDUCATION**

Mr R Dhivagar, Asst. Professor, Dept. of Mechanical Engineering, attended a webinar on "Future Education" organized by ICT Academy, on 18 June 2020. Prof D P Singh, Chairman, University Grants Commission, facilitated the session.



## MECH | WEBINAR ON ENGINEERING THE WORLD RALLY CAR - SUBARU'S RACING SET-UP FOR A WRC SERIES



Mr R Harikrishnan, Asst. Professor, Dept. of Mechanical Engineering, attended a webinar on "Engineering the World Rally Car - Subaru's Racing set-up for a WRC Series". Mr. Graeme Harris, International Motorsport expert and Sr. Lecturer, ARA Institute of Canterbury, NZ facilitated the session on 18 June 2020.

## MHRD | LEADERSHIP TALK





Members of Faculty and Students of SKCT attended a Seminar on "Leadership Talk" with Shri R Subrahmanyam, Secretary, Dept. of Social Justice and Empowerment & Dr Abhay Jere, Chief Innovation Centre, MHRD Innovation Cell through TWITTER Live on 13 June 2020. Ms. V Roopa, Asst. Professor, Dept. of IT coordinated the session.



## IT | FDP ON MACHINE LEARNING



## **Auxilium College (Autonomous)**

(Accredited by NAAC with A<sup>+</sup> Grade with a CGPA of 3.55 out 4 in 3<sup>rd</sup> Cycle)

Gandhi Nagar, Vellore – 632 006.



Dr. D. Jeyabharathi

Sri Krishna College of Technology

has participated in the One Week Online Faculty Development Programme on "Machine Learning"

held from 1st - 7th June 2020 organized by the PG Department of Computer Science,

Auxilium College (Autonomous), Vellore.

Sharthi A.L

Ms. Shanthi A.L.
Organizing Secretary

Department of Computer Applications
Auxilium College, Vellore

S. Lavanga

Dr. S. Lavanya

### **Organizing Secretary**

Head, PG Department of Computer Science Auxilium College, Vellore L'hapillay 1.

Dr.(Sr.) Regina Mary R.

Convenor

Principal
Auxilium College, Vellore

Dr D Jeyabharathi, Asst. Professor, Dept. of IT, participated in an online Faculty Development Programme on "Machine Learning" during 01 - 07 June 2020 organized by Auxilium College, Vellore.

## EEE | FDP ON ROAD MAP TO GET A QUALITY PATENT









## Department of Electrical and Electronics Engineering

National Level E-Faculty Development Programme
On
"Road Map to get a Quality Patent"

## Certificate of Participation

This is to certify that

### Ms.A.Gayathri

has participated in the National Level E-Faculty Development Programme on Road Map to get a Quality Patent organized by the Department of Electrical and Electronics Engineering held on 13th June 2020 at AMET Deemed to be University, Chennai.

Certificate No: AXZG8S-CE000503

Date:13/06/2020

Convener Dr.T.Sasilatha Dean- EEE

Ms. A Gayathri, Asst. Professor, Dept. of EEE participated in the National-level E-Faculty Development Programme on "Road Map to Get a Quality Patent" organized by the Dept. of EEE, AMET University, Chennai. The session was facilitated by Mr Sasikumar Chandran, Founder & CEO of HUMCEN.

## **MECH | FDP ON 3D PRINTING AND DESIGN**



## A One Week Online Faculty Development Program On



### 3D PRINTING AND DESIGN 15-19 June, 2020

Under AICTE Training And Learning (ATAL) Academy Program
Organized by



Department of Mechanical Engineering, NIT Warangal

#### **Speakers**

Dr. Y Ravi Kumar Prof. L Krishnanand

Prof. A Kumar

Dr. M Manjaiah Mr. K Rakesh

#### **Course Coordinators**











Dr. Y Ravi Kumar Prof. L Krishnanand MED, NIT Warangal





Mr K Senthilkumar and Mr S Ramkumar, Asst. Professors, Dept. Mechanical Engineering, attended a five-day Faculty Development Program on "3D Printing and Design" under ATAL Program organized by the Dept. of Mechanical Engineering, NIT Warangal during 15-19 June 2020.

## **MECH | FDP ON 3D PRINTING AND DESIGN**

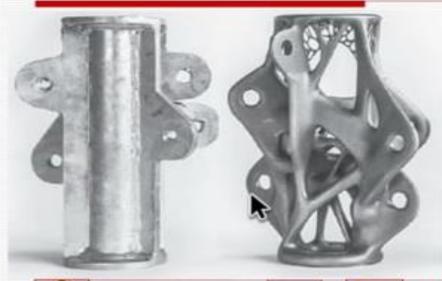
## Introduction to CAD and 3D Printing File Formats

### Prof. Lanka Krishnanand

Dept. of Mechanical Engineering National Institute of Technology Warangal – 506 004, India



## **Topological Optimization**



One mack ONLINE AICTE-ATAL FOF on AD Cristing of Dudge June 13 - 15, 2020.



6

Ct. 7. Com Types Associate Professor Dept. of Mechanical Engineering NCT Warangel, India





## **EEE | JOURNAL PUBLICATION**



May – June 2020 ISSN: 0193-4120 Page No. 17860 - 17864

## Examination Impersonation Avoidance System Using Fisherface Algorithm

T.Bharani Prakash<sup>1</sup>, Dr.K.Kannan<sup>2</sup>, S.Nagakumararaj<sup>3</sup>

<sup>1,3</sup>Assistant ProfessorDepartment of EEE, Sri Krishna College of Technology, Coimbatore, Tamilnadu, India
<sup>2</sup>Associate Professor,Department of EEE, Sreenidhi Institute of science and technology, Hyderabad, Telangana, India

Article Info Volume 83 Page Number: 17860 - 17864 Publication Issue: May - June 2020

Article History Article Received: 1May 2020 Revised: 11 May 2020 Accepted: 20 May 2020

Publication: 24May 2020

#### Abstract

In this day and age that observes an ever-changing situation inside the specialized fields, the idea of an "assessment" also has changed. From the standard techniques for pen-and-paper and Optical Mark Recognition (OMR), it's developed into 'Online Examinations', which are bounty increasingly adaptable, efficient further as require many less assets. Be that as it may, they need certain disadvantages as well. While the vulnerabilities required inside the working of the gear and 'server separate' do influence the assessment, the advancements in innovation have overcomed these. In any case, the chief significant issue looked by online assessments is that the validness of the researcher who is taking it.Impersonation, since it is named, is truth be told, due to the carelessness (or in specific cases as a result of the participation) of the human factors that are available at the assessment community. The point of this paper is to take out these human elements, to ensure that pantomime, assuming any, might be effortlessly distinguished, and furthermore the impersonator isn't permitted to go to the assessment. For this reason, two-advance procedure of biometric check of the applicant is utilized, facial and unique finger impression acknowledgment, right now, might be maintained a strategic distance

Keywords; Online exam, Aadhar, Facial recognition, fingerprint recognition

#### I. INTRODUCTION

Online assessments have gradually started picking up fame and are holding onto the ordinary strategies for pen-and - paper and OMR reaction sheets in India. At first, in any case, it faced various difficulties. Back in the year 2019, when the National Eligibility and Entrance Test got necessary for clinical universities, numerous understudies were gotten for pantomime and it turned into a significant issues in all over India and furthermore the DCAT occurrence occurred in 2009 the coordinators had to supply examinees another possibility at noting the paper as there have been PCs getting slammed and various competitors couldn't finish the test .Almost 10 years after the DCAT episode, online assessments turned into a pattern. Most coordinators lean toward online assessments over disconnected assessments on account of components like cost

viability in addition as time and vitality protection. Understudies also have started adjusting to the new strategy, however step by step. The advantages of a web assessment over the disconnected one, from an understudy's point of view incorporate the advantage of fixing a specific answer, the flexibleness to choose a date of assessment besides on the grounds that the clock set at the server, which causes them deal with their assessment time adequately. Different proposition are made to take out pantomime in online assessments. In any case, a large portion of them include just a 1 stage biometric confirmation or check of social attributes, which aren't constantly solid. Different assortments of pantomime difficulties that are looked in a web assessment are talked about in .During this paper, a way is implied and executed to kill these pantomime types. Here, an arrangement of pantomime location

Published by: The Mattingley Publishing Co., Inc.

17860

Mr. T Bharani Prakash and Mr. S Nagakumararaj, Asst. Professors, Dept. of EEE published a Research Paper titled "Examination Impersonation Avoidance System Using Fisherface Algorithm" in the Scopus-Indexed Journal of Test Engineering and Management.

## **EEE | JOURNAL PUBLICATIONS**

### Improvement in the performance of solar cells through the deposition of nano particles for

Abstract
In 21st century the conversion from fossil fuels into
renewable energy sources occurs and it was the
challenge faced by humans. The solar cell
manufacturing industries was grown rapidly due to
tremendous interest in renewable energy sources.
Recent technology used in solar industry has little
chance to emulate with non-renewable energy sources
or grids. For huge energy generation the cost of the
system is high. Cost plays a vital role in achieving a
favorable outcome in solar technology.

The improvement in nanotechnology may lead to the manufacture of low-cost solar cells. Nanotechnology showed a sudden change in the solar technology. Nanotechnology has been used to enhance the efficiency of Photovoltaic solar cells, but the challenge faced by the scientists is the reduction in cost Obtaining energy from a solar cell should preserve the surroundings. This system predicts about the drawbacks in conventional sources and research made in order to overcome the disadvantages and science that are used to utilize maximum energy.

Keywords: Nanotechnology, Conventional Energy, Solar Cell, Quantum dots.

Introduction

Renewable energy sources were more important and it is utilized plobally. Photovoliate cells convert the potential of rays from the sun into charges. 12 Geror discuss about upcoming developments in solar cells, it is important note to know about the basics of normal cells. Solar cells which utilize energy as beat in sumpsy are called photovoliate cells. Silicen is banjorly used for production of solar cells. When the production of energy the production of the pr

By enumerating different contaminants to the silicon an electric field can be setup. The electric field produced from silicon material acts as a diode, since it permits the electron to allow in one direction <sup>3</sup>. The final stage is the majority of electrons which is very familiar to us as electricity.

\* Author for Correspondence

Special Issue on Renewable Energy and Sustainable Environment

Normal solar cell has two disadvantages mainly; one is the less efficiency which is unavoidable in silicon material. In that the incoming photon must have enough energy to knock out the electrons. The photon energy may more or less when compared to band ago energy, accordingly the photon either may pass through or wasted as heat. For this process alone 70% of occurrence of the radiant energy on the cell is wasted. Nanoparticles are very less compared to the width of human hair \*1. \*Nanoparticles are very less compared to the width of human hair \*1. \*Nanoparticles are not even for it is dones in fines and the state of the same than the same than the same than the same taken to their interiors were more. It alones in laws different characteristics when compared to the same material. Nanotechnology was incorporated into system mainly to lower cost and increase efficiency. The solar cells consist of Nano structured layers has three significant qualities. In first phase, the actual optical track is more than actual thickness because of several reflections.

In latter phase, recombination losses were lowered because of the light produced electrons holes has to travel along a minimum path. As an outcome of system, the anno structured solar cells have an absorber layer and its thickness is as this as 150 mm in place of numerous micrometers in the conventional thin film solar cells. At least, the third phase is the various layers where the energy band gap is made according to the preferred design by changing the size of nano elements. It make for the solar cells design flowlithly:

Thin film is one of the high costs in which the solution is made up of thin coating component which was available at very low cost. Ohly very low matterful is required which is approximately ~1% and prices were reduced. Many cells use anorphous siltion, which does not have a crystalline structure and efficiency is reduced (8%), however the manufacturing cost low. According Caberne Description William (1) and 1) and 1)

#### Material and Methods

Material and Methods
Nowadays, Solar cells are not capable of converting entire received light to proposed energy since few particles of light can evolved into the air. Added to it, light rays occur in a multi colors and the cells are fastered in changing binshi light and functions at slow rate in conversion of reddish light. Reduced energy level of the light passes through the cell which is not utilized. When the energy becomes greater than the hading p it is exhausted in the from 0 heat which is shown in lig. 1. The excited electrons must recombine

Ponmurugan, Professor, Dept. of published a research paper "Automation titled of Commercial & Residential buildings using IOT" in the Scopus-Indexed International Journal of Advanced Science and Technology, Vol. 29, No. 4s, 2020.

Senthil Mr R Kumar, Asst. Professor, Dept. EEE of published a research paper titled "Improvement in the Performance of Solar Cells through the Deposition Nano Particles for Avoiding Surface Reflections" Scopus-Indexed Research Iournal of Chemistry Environment, Vol.24 (Special Issues I),2020.

Automation of Commercial & Residential buildings using IoT

S.Mathesh Kumar<sup>1</sup>, S.M.Mohamed Suhail<sup>2</sup>, N.Pradheep<sup>3</sup>, V.Preethikadevi<sup>4</sup>, P.Ponmurugan<sup>5</sup>

1233 UG Student, Dept. of EEE, Sri Krishna College of Technology, Coimbatore <sup>5</sup>Associate Professor, Dept. of EEE, Sri Krishna College of Technology, Coimbatore

#### Abstract

Power consumption of electrical appliances when not utilized is a serious issue in all organizations and institutions. Most of the organizations have manual control to operate and monitor the electrical appliances. By this practice, the electrical appliances like lights, fans, computers, etc are left ON when they are not in use in office rooms and even in restrooms This led to unnecessary power consumption which can be utilized properly if avoided. In this paper, automatic control and monitoring of electrical appliances is done with the use of IoT. For implementing the concept, RFID tags, IR sensors, solenoid locks are utilized for sensing and automating the door lock system. A mobile application is developed to ease the entire

Keywords: IoT, Wi-Fi, RFID, Sensors, Automation, smart room

#### I. Introduction

In modern society, people spend most of time in their organization. There is no doubt that the organization environment directly affects the working efficiency, so comfort is required inside the organization. On the other hand, the current energy crisis and growing environmental contamination dilemma all over the world especially in developing countries make energy conservation become the new trend of organization buildings. In response to these thorny issues, the smart office system emerges.

A smart organization system usually consists of an embedded automation system information technology, and automation technology, several controlled objects and corresponding sensors. It should be sensitive to user's demand, and then analyze it, finally react to it in time. On the other hand, recent researches on smart organization system mainly focus on only one installation e.g. lighting. The automation of technology is achieved through Internet of Things (IoT). Nowadays, we are encircled by lots of IoT

ISSN: 2005-4238 IJAST Copyright © 2020 SERSO

## **S&H | JOURNAL PUBLICATION**



Dr V Parimala, Asst. Professor of Mathematics, Dept. of S&H published a paper titled "Numerical Solutions of Fuzzy Differential Equation under Generalized Differentiability Concept using a Third Order Runge- Kutta Method with Contra Harmonic Mean", Gedrag & Organisatie Review - ISSN:0921-5077, Volume 33: ISSUE-02 on June 2020.



## EEE | PATENT PUBLISHED | PESTICIDES SPRAY DRONE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041020773 A

(19) INDIA

(22) Date of filing of Application :17/05/2020 (43) Publication Date: 05/06/2020

(54) Title of the invention: DEVELOPMENT OF PESTICIDES SPRAY DRONE FOR AGRICULTURE FIELDS

:A63H0030040000,

B64C0039020000,

A63H0027000000.

G05D00010000000.

A63F0013245000

·NA

:NA

:NA

:NA

:NA

: NA

:NA

:NA

:NA

·NA

(71)Name of Applicant:

1)Dr.S.Gnanasekaran

Address of Applicant : Assistant Professor, Mechanical Engineering, Sri Shakthi Institute of Engineering & Technology, L &T By - Pass Post, Sri Shakthi Nagar, Chinniyampalayam,

Coimbatore 641062. Tamil Nadu India

2)Dr. T.C.Maniunath

3)Dr.S.Senthil Kumar

4)Dr. S. Nallusamy

5)Dr. Kannan Kaliappan 6)Dr. Velmani Ramasamy

7)Mr. Shubham Awasthi

8)Mr.S.Nagakumararaj

9)Mr. Hemant B. Mahajan

10)Mr.Srinivas Naik

11)Mr.Manju J R

12)Mr.Venkata Ranga Rao Kommineni 13)Dr.Parrakal Satishchandra Menon

14)Dr.A.Umesh Bala

15)Mr.T.Vignesh

(72)Name of Inventor:

1)Dr.S.Gnanasekaran

2)Dr. T.C.Manjunath

3)Dr.S.Senthil Kumar

4)Dr. S. Nallusamy

5)Dr. Kannan Kaliappan 6)Dr. Velmani Ramasamy

7)Mr. Shubham Awasthi

8)Mr.S.Nagakumararaj

9)Mr. Hemant B. Mahajan

10)Mr.Srinivas Naik

11)Mr.Manju J R

12)Mr.Venkata Ranga Rao Kommineni 13)Dr.Parrakal Satishchandra Menon

14)Dr.A.Umesh Bala

15)Mr.T.Vignesh

The objective is to design a semi-autonomous drone capable of self-sustained flight via wireless communications while utilizing a microcontroller. The drone was designed to be small enough so that costs would be minimized, hence small motors and propellers are used. While a PIC microcontroller, accelerometer, and gyroscope are communicating between each other to maintain control. The scheduler program arranges the following tasks: controller input, sensor data received from the accelerometer, gyroscope and magnetometer. The wireless transceivers use SPI to send control signals to the microcontroller on the drone from the handheld controller unit. The accelerometer/gyroscope and magnetometer both use I2C to send the amount of acceleration, stabilization, and the direction vector. To achieve flight, two of the motors must apply downward force and the other two motors have to apply an upward force. To turn, one pair (left or right side) of motors slows down to turn the copter. To ascend, all motors will increase in speed, and will all decrease in order to descend. To move forward, the front two motors will decrease while the back two motors will increase and vice versa in order to move in a backwards direction.

No. of Pages: 25 No. of Claims: 3

(51) International classification

(31) Priority Document No

(33) Name of priority country

(86) International Application No

(87) International Publication No

(61) Patent of Addition to Application

(62) Divisional to Application Number

(32) Priority Date

Number

Filing Date

Filing Date

Filing Date

The Patent Office Journal No. 23/2020 Dated 05/06/2020

21174

Mr S Nagakumararaj, Asst. Professor, Dept. of EEE published a Patent titled "Development of Pesticides Spray Drone for Agriculture **Fields"** in Intellectual Property Rights (IPR) Journal 2020.

## ECE | PATENT FILED | SMART AYNA

6/12/2020

:::Duplicate CBR Print of Date:::

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Date/Time: 11/06/2020

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18345	ORDINARY APPLICATION	202041024534	SMART AYNA	1750
2		E-2/1533/2020-CHE	202041024534	Form2	0
3		E-3/17894/2020-CHE	202041024534	Form3	0
4		E-5/1312/2020-CHE	202041024534	Form5	0
Total :	1750				

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A Project titled "Smart Ayna" has been filed for Patenting under Intellectual Property Rights (IPR) by Mr S Ganesh Prabhu, Asst. Professor, Dept. of ECE along with Students of Final Year B.E. ECE B Section Mr. M Aravind, Mr. M Ashwin, Mr. S Balavruthish, Mr. D Amarthiyan and Mr. R Harisankar on 11 June 2020. The Project **Smart Ayna** is an Evolutionary prototyping model and Ambient intelligence device which acts as a conventional mirror displaying useful information like weather updates, time, date, global news, events, and reminders and can also control home appliances through voice commands.

### **NATIONAL READING DAY**

## NATIONAL READING DAY



## SWING BY THE LIBRARY TO CHECK OUT A BOOK FOR TODAY!

India celebrates the 25th edition of the National Reading Day on June 19. The day is celebrated in honour of Father of India's Library Movement - Puthuvayil Narayana Panicker. PN Panicker born to Govinda Pillai and Janaky Amma at Neelamperoor, Kerala on March 1, 1909. As a teacher, his influence was far greater than many of his time. Dedicated to the improvement of society through the only true tool - education, he started that Sanadanadharmam Library as a teacher in his hometown. Panicker travelled through the state and went from village to village, talking about the values of reading. In his lifetime, he was able to bring about 6000 libraries within the network. This year marks the 25th anniversary of the National Reading Day. To honour the man and his message of 'Read and Grow', the week starting June 19 would be celebrated as Reading Week. Furthermore, this year, the 'Reading Month' would also be celebrated from June 19 to July 18. **Courtesy** 

Times of India