

#### BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennal • Approved by AICTE • Accredited by NAAC with "A+" Grade SATHYAMANGALAM - 638401 ERODE DISTRICT TAMILNADU INDIA Ph: 04295-226000/221289 Fax: 04295-226666 E-mail: stayahead@bitsathy.ac.in Web: www.bitsathy.ac.in

INTERNATIONAL VIRTUAL CONFERENCE ON ADVANCES IN DIGITAL TRANSFORMATION, SOFTWARE TECHNOLOGIES AND INTELLIGENT IOT SYSTEMS (ICADSIS)

This is to certify that Dr./Mr./Ms. <u>NIVEDHITHA V</u> has presented the paper entitled <u>DISEASE</u>

<u>PREDICTION FROM RETINAL IMAGE SEGMENTATION AND CLASSIFICATION USING DEEP</u>

<u>NEURAL NETWORK ALGORITHM</u> in the International Virtual Conference on Advances in Digital

Transformation, Software Technologies and intelligent IoT systems (ICADSIS), organized by the

Department of Information Technology, Bannari Amman Institute of Technology, Sathyamangalam on

20<sup>th</sup> and 21<sup>st</sup> May 2022.

Dr. V. Eswaramoorthy Organising Secretary

Dr. S. Daniel Madan Rajapal Dr. C. Palanisamy
HoD - IT & Conveniencering and Technology Principal

Kuttathupatti Village, Sindalagundu (Po),

Palani Road, Dindigul - 624002.





Certificate No.: 169



#### BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai • Approved by AICTE • Accredited by NAAC with "A+" Grade SATHYAMANGALAM - 638401 ERODE DISTRICT TAMILNADIJ INDIA

Ph: 04295-226000/221289 Fax: 04295-226666 E-mail: stayahead@bitsathy.ac.in Web: www.bitsathy.ac.in

INTERNATIONAL VIRTUAL CONFERENCE ON ADVANCES IN DIGITAL TRANSFORMATION, SOFTWARE TECHNOLOGIES AND INTELLIGENT IOT SYSTEMS (ICADSIS)

This is to certify that Dr./Mr./Ms. S. DEEPIKA has presented the paper entitled A COMPREHENSIVE STUDY ON DIFFERENT ACCESS CONTROL MODELS FOR IOT ENVIRONMENT USING BLOCK CHAIN TECHNOLOGY. in the International Virtual Conference on Advances in Digital Transformation, Software Technologies and intelligent IoT systems (ICADSIS), organized by the Department of Information Technology, Bannari Amman Institute of Technology, Sathyamangalam on 20<sup>th</sup> and 21<sup>st</sup> May 2022.

Dr. V. Eswaramoorthy
Organising Secretary

of Engineers

Institute

Dr. S. Daniel Madan Baja Engineering and Technology
HoD - IT & Convener Willage, Sindalagundu Pol,

Palani Road, Dindigul - 624 002

Certificate No.: 266





#### AR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION

This is to certify that De / Mr. / Ms. P. Deepika ...... from the Department of Computer Science & Engineering participated in the conference "ICNSCET -2022" exhibiting his/her skills on the paper titled Secured Cloud storage for 9 mages

Salaswathi College of Engineering and Technology, Thenion 16th & 17th June 2022

OF D. SENTRIL KUMARAN, M.E., PE.D., (MUSI

Principal

SSM lasher of Regreening and Jechnology Ch

Kimoa Ra wimaniago Sindalagundu Kolis in Maticawaran B Palani Koau, Dindigul - 624002.



#### NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION

of Computer Science & Engineering participated in the conference "ICNSCET -2022" exhibiting his/her skills on the paper titled FACE PIN: Face Biometric Authentication System for ATM using Deep Learning Nadar Saraswathi College of Engineering and Technology, Theni on 16" & 17" June 2022. Dr.D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)



Principal

SSM lastitute of Engineering and Technology

Palati Roza, Dindigui - 624 002 Mr.A.S.R.Mahaswaran



Contenencs Coordinaton

Principal, NSCET

Theni Melapettai Hindu Nadargal Uravinmurai

#### NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Secretary, NSCET

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION

This is to certify that Dr. / Mr. / Ms. A. Psuyanka from the Department
of Computer Science & Engineering participated in the conference "ICNSCET -2022"
exhibiting his/her skills on the paper titled Coyonayy illness prediction using
Machine learning Techniques-Ensemble Method held at
N. J. C. W. C.
Nadar Saraswathi College of Engineering and Technology, Theni on 16th & 17th June 2022.
Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS) Principal
SSW Institute of Engineering and Technology
Dr.C. Mathatal Sundaram, M.E. Ph.D.  Dr.C. Mathatal Sundaram, M.E. M.B.A. Ph.D.  Er.S. Naveen Ram, B.E. M.B.A.  Mr.A. Rajkumar, B.B.A.  Mr.A. Rajkumar, B.B.A.  Mr.A. Rajkumar, B.B.A.  Mr.A. Rajkumar, B.B.A.

Joint Secretary, NSCET

Secretary, NSCET





#### BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai • Approved by AICTE • Accredited by NAAC with "A+" Grade

**ERODE DISTRICT** SATHYAMANGALAM - 638401

TAMILNADU

Ph: 04295-226000/221289 Fax: 04295-226666 E-mail: stayahead@bitsathy.ac.in Web: www.bitsathy.ac.in

INTERNATIONAL VIRTUAL CONFERENCE ON ADVANCES IN DIGITAL TRANSFORMATION, SOFTWARE TECHNOLOGIES AND INTELLIGENT IOT SYSTEMS (ICADSIS)

This is to certify that Dr./Mr./Ms. N. PADMAPRIYA has presented the paper entitled A REVIEW WORK ON VARIOUS LEARNING METHODS FOR INTRUSION DETECTION MECHANISMS IN IMBALANCED NETWORK TRAFFIC. in the International Virtual Conference on Advances in Digital Transformation, Software Technologies and intelligent IoT systems (ICADSIS), organized by the Department of Information Technology, Bannari Amman Institute of Technology, Sathyamangalam on 20th and 21st May 2022.

SSW Institutes

Dr. V. Eswaramoorthy **Organising Secretary** 

r. S. Daniel Madan Raja Dr. C. Palanisamy HoD - IT & Convener ENTHIL KUMARAN, Principal Dr. S. Daniel Madan Raja

SSM Institute of Engineering and Technolog

Kuttataupatti Village, Sindalagundu (Po), Palam Road, Dindigul 624 002

Certificate No.: 267



NSCET/2021-22/ICNSCET- CS 30

Theni Melapettai Hindu Nadargal Uravinmurai



#### NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION

DEStrandhakrishnan, M.E. Ph.D. Conference Coordinator.

Dr.C Mathalai Sundaram, ME MBA Ph.D. Principal NSCEL

577

Joint Secretary, NSCET.

SSM institute of Europe and Ruttathunatti Village, Sind lag

Palani Rosda Dinesgui - 624002.

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

DVA

A.S.R.Maheswaran, B.Sc. Secretary, NSCET



NSCET/2021-22/ICNSCET- CS 38

Theni Melapettai Hindu Nadargal Uravinmurai



### NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION

Nadar Saraswathi College of Engineering and Technology, Thenion 16<sup>th</sup> & 17<sup>th</sup> June 2022.



Dr.C Mathalai Sundaram, M.S. M.B.A. Ph.D.
Principal, N.S.C.

Er.S.Naveen Ram, B.e., M.B.A., Joint Secretary, NSCET.

SSM Institute Are specified and Technology Chr. SSM Institute Are specified and Technology Chr. Secretary NSCET Kuttathupatti Road, Dindigul - 624 002.

VIIMARAN, M.R., Ph.D., (NUS)

(2)



#### ASWATHI COLLEGE OF ENGINEERING &

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai. Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION

This is to certify that Dr. / Mr. / Ms. Anu Lavanya . N

of Computer Science & Engineering participated in the conference "ICNSCET -2022"

exhibiting his/her skills on the paper titled Election Result Prediction using

Machine Learning Technique

Nadar Saraswathi College of Engineering and Technology, Theni on 16th & 17th



Dr.C. Mathalai Sundacam, M.F.

ErS Naveen Ram, BE MEA

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal

SSM institute of Engineering and Technology

Kuttathupatti Village, Sindalagundu (Po),

Mentant Road, Dindigul - 62400





#### NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION



Dr.C. Mathalal Sundaram, M.C. M.D. Principal NSCOT

ErS.Naveen Ram, B.E. M.B.A., Joint Secretary, NSCET Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM institute of Engineering and Technology
Ruttathupatti Village, Sind alegandu [Po]

Mr.A. RaPalauv Road, Dindigul +624:002 aheswaren & Secretary, NSCRY



#### NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION

This is to certify that Dr. /	Wr. / Ms. N. J. Divya	<mark></mark>	fr	om the Department
of Computer	Science and En	gineexing participated	in the conference	"ICNSCET -2022"
exhibiting his/her skills or	the paper titled Foetal	risk Analysia	s using	
Cardiotocog	maphic Data			held at
cogines	of Engineering and Technology, T	heni on 16 <sup>th</sup> & 17 <sup>th</sup> June 2022.		
Will MS W In Manual MS W In MS	Harit	Fly 1	Or.D.SENTHIL KUMARAN, Principal SSM Institute of Engineering	and Technology
Dr. Anandhakrishnan Me Ph.D.	Dr.C. Mathalal Sundaram, M.E. M.B.A. Ph.D. Principal NSCOL	Er.S.Naveen Ram, B.E. M.B.A. Mr.A	Polant Road, Diames	LS.R.Maheswaran, B.Sc. Secretary, NSCET.



### NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

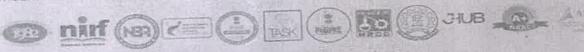
CERTIFICATE OF APPRECIATION

This is to certify that D. / Mr. / Ms. N. J. Divya from the Department
of Computor Science and Engineering participated in the conference "ICNSCET -2022"
exhibiting his/her skills on the paper titled Wind Shield Glass Camera Vision based distracted
Nadar Saraswathi College of Engineering and Technology, Thenion 16th & 17th June 2022.
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)  Principal  SCH-Institute of Engineering and Technology  Dr. Mathielal Sundaram, M.E. and A. Principal  Engineering and Technology  Engineering and Technology



#### St. MARTIN'S ENGINEERING

A NON MINORITY COLLEGE, AFFILIATED TO JNTUH, APPROVED BY AICTE, ACCREDITED BY NEA & NAAC A+, ISO 9001 2008 CERTIFIED, SIRO RECOGNITION BY MINISTRY OF SCIENCE & TECHNOLOGY, GOVT OF INDIA DHULAPALLY, NEAR KOMPALLY, SECUNDERABAD - 500 100, TELANGANA STATE, INDIA, WWW.SMEC.AC.IN



# Certificate of Appreciation

Paper ID: 705



This is to certify that

#### ANU LAVANYA N

from Kare Krishnan Kovil, India

has participated and presented a paper on

"A STUDY OF CYBER SECURITY ATTACK USING MACHINE LEARNING

AND DEEP LEARNING"

in the 2nd Online International Conference on

"Continuity, Consistency and Innovation in Applied Sciences and Humanities"

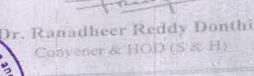
(ICCLASH-2021)

organized by Department of Science and Humanities of St. Martin's Engineering

College, Dhulapally, Secunderabad, T.S, India

James M.

Dr. P. Santosh Kumar Patra Patron, Program Chair & Principal





Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS) Principal SSM Institute of Engineering and Technology Ku!tataupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.





# NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

"ICNSCET -2022"

CERTIFICATE OF APPRECIATION

This is to certify that Dr. / Mr. / Ms	RTHIK		fr	om the Department
This is to certify that Dr. / Mr. / Ms.	(S	sM)	in the conference	"1CNSCET -2022"
of ELECTRONICS AND COMMUNICATION	"FV&(NEERIVAI"""	participated	III the condition	
exhibiting his/her skills on the paper titled SU	RVEY OF LOG	tic Locki	NG SCHEME	s BASED
ON ATTACK RESIL	LIENCE		4	held at

Nadar Saraswathi College of Engineering and Technology, Thenion 16th & 17th June 2022.



Dr.C. Mathalal Sundaram, ME-MIA, Ph.D. Principal HSCET

5/2 Er.S. Naveen Ram. BE, MBA.

Joint Secretary, NSCET.

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal

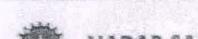
Linstitute of Engineering and Technology sindalagundu (Po),

Secretary NSCET

MASR Maheswaran BSc Secretary, NSCET



NSCET/2021-22/ICNSCET- EC OTO



#### Theni Melapettai Hindu Nadargal Uravinmurai

#### NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennal Annanji(po), Vadapudupatti, Theni - 625 531.

International Conference on New Scientific Creations in Engineering and Technology

### "ICNSCET -2022"

CERTIFICATE OF APPRECIATION

This is to certify that Dr. / Mr. / Ms. R. SANMEETHA. ., from the Department ECE, SSM INSTITUTE OF ENGIGE & TECH ..... participated in the conference "ICNSCET -2022" exhibiting his/her skills on the paper titled Tot BASED SWIART TROLLEY FOR SHOPPINE at Ecolo College of Engineering and Technology, Thenton 16" & 17" June 2022 Nadar 5 Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal SSM Institute of Engineering and Technology Lulisthupatti Village, Sindalagundu (Po), Palani Road, Dindigul 624 002

Sychological William







Department of Electronics and Communication Engineering & Centre for Micro Nano Design & Fabrication

#### CERTIFICATE



This is to certify that

R. SANGEETHA

of

#### SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

has participated and presented a paper titled

PERSONALIZED MUSIC RECOMMENDATION MODEL BASED ON MACHINE LEARNING

in IEEE INTERNATIONAL CONFERENCE ON SMART STRUCTURES AND SYSTEMS (ICSSS 2022)

held on 21<sup>st</sup> & 22<sup>nd</sup> April, 2022.

1 Hangayant

Dr. Srigitia Silla MARAN, M. LON Duraipandian

Conference ChairPrincipal

Principal

SSM institute of Engineering and Technology

Kuttathupatti viliage, Sindalagundu (Po) Palani Road, Dindigul - 624 002.

Dr. P. Mangayarkarasi

**Organizing Chair** 

Dr. S. Praveen Kumar **Organizing Secretary** 



#### Personalized Music Recommendation model based on Machine Learning

Dr Mohammad Gouse Galety Department of Information Technology Catholic University in Erbil, Erbil, Kurdistan Region, Iraq gousegal@gmail.com

L.K.Balaji Vignesh Department of ECE Ramco Institute of Technology Rajapalayam, India balagkannan@gmail.com

Dr.R.Thiagarajan Department of IT Prathvusha Engineering College Chennai, India rthiyagarajantpt@gmail.com

Dr.S.Arun Department of ECE Prathvusha Engineering College Chennai, India yesarun1810@gmail.com

R.Sangeetha Department of ECE SSM Institute of Engineering and Technology Dindigul, India sangeethassmece@gmail.com

Dr.R.Krishnamoorthy Department of ECE Prathyusha Engineering College Chennai, India krishnamoorthy.mkr@gmail.com

Abstract—A music recommendation system suggests songs to an individual user on his preferences. There are many different orts of music to choose from. The world of music is so vast that it is impossible to listen to all the songs one desires. As a result, we create a model that supports a user in discovering music that he could enjoy. It collects individuals who share the user's passions and picks knowledge and resemblance associations depending on the user's past. The information gathered from user evaluations is used to make suggestions. The main focus of the study is on the context-aware recommendation process's insufficient integration of context data with the emergence of new attractions. Using libraries like NumPy and Pandas, we used a library of songs to uncover connections across individuals and music so that a hit album might be offered to individuals derived from history. In addition to Count Vectorizer (CV), we'll use Cosine similarity (CS). In addition, when a piece of given music is processed, a front end with a flask will provide us with the suggested tracks.

Keywords— Music recommendation system, NumPy, Pandas and Count Vectorizer.

#### INTRODUCTION

The Web's capabilities are expanding due to the fast expansion of the Internet and technology. On the one hand, the resources available through the Internet are growing increasingly abundant, bringing considerable comfort to people's lives. However, on the other side, the enormous data space provides users with more options. Simultaneously, users get lost in a sea of data to find the information they need, a phenomenon known as "information overload." To address these issues, a proposed recommendation system was developed, which dynamically offers objects that match users' interests based on their preferences [1-3].

Choosing a suitable recommendation system is critical to personalized implementation effective of the recommendation engine, and the algorithm's performance directly affects recommendation quality. The most prevalent recommendation approaches are frequent pattern evaluation, hybrid classification recommendation, sentiment

978-1-6654-9761-9/22/\$31.00 @2022 IEEE

recommendation [4-8], and content-based recommendation technology [9-12].

In the field of recommendation, collaboration filtering suggestion is now the most widely used effective at the same time and the most active area of study in the field of recommendation algorithms. Collaborative filtering identifies how comparable individuals' interests are now, and filters and screens target consumers depending on similar ones.

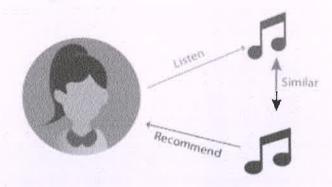


Fig. 1. Basic recommendation scheme

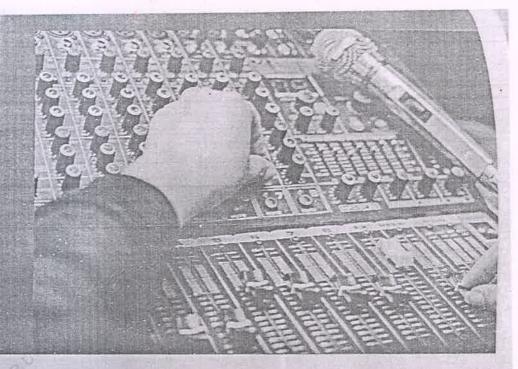
The primary premise of collaborative filtering would be that users share comparable values, beliefs, levels of knowledge, and curiosity inclinations, as well as a similar need for information [13 - 16]. As a result, collaborative filtering technology has a benefit over traditional methods, some topics that are not easy to analyze material for, such as abstract resource objects and personal taste. Collaborative filtering expertise can efficiently utilize the data to analyze many users with comparable interests, allowing for fewer user feedback and faster-personalized learning of hidden interests. The coordinated filtering system has piqued the interest of a growing number of academics due to its wide range of applications [17]. Meanwhile, the combined filtering technique has been elevated with research domains in ML. pllaborative filtering recommendation (CFR) and Content-

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal SSM Institute of Engineering and Technology

Ruttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.



Digital Signal Processing book for engineering students studying at the undergraduate level, irrespective of which branch of engineering they are enrolled under. This book looks at the mathematical concepts behind digital processes, then develops algorithms to perform certain actions, finally applying them to different types of software and hardware. The syllabus is covered at a basic level, in order to be comprehensible for every student, and is broad enough to cover topics taught at the undergraduate level in most engineering colleges and universities in India. Chapters on Multirate Signal Processing. This book gives students a theoretical idea of how algorithms, and codes can be applied to digital processing to develop actual software. This book gives students a theoretical idea of how algorithms, and codes can be applied to digital processing to develop actual software. We have explained various concepts by giving lot of examples. We would advise the students to have a strong back- ground of signals and systems as the prerequisite for a thorough understanding of the fundamentals of Digital Signal Processing.



Dr VELMANI RAMAS Dr MOHANBAI

#### DIGITAL SIGNA PROCESSIN

Introduction DEL FET. FIR & IIR Filter, Multi



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

SSM institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624002.





Dr. Velmani Ramasamy working as a Assistant Professor in the Department of ECE at Madanapalle Institute of Technology and science, Madanapalle, Andhra Pradesh-517325. Dr.G Mohanbabu working as a Professor and Head in the Department of EEE at SSM institute of Engineering and Technology, Dindigul 624002. Tamil Nadu.



Dr VELMANI RAMASANY, OF MOHANB

igital Signal Processing book for engineering students studying at the undergraduate level, irrespective of which branch of engineering they are igital Signal Processing book looks at the mathematical concepts behind digital processes, then develops algorithms to perform certain actions, finally uplying them to different types of software and hardware. The syllabus is covered at a basic level, in order to be comprehensible for every student, and broad enough to cover topics taught at the undergraduate level in most engineering colleges and universities in India. Chapters on Multirate Signal processing. This book gives students a theoretical idea of how algorithms, and codes can be applied to digital processing to develop actual software. We have explained pook gives students at theoretical idea of how algorithms, and codes can be applied to digital processing to develop actual software. We have explained processing to develop actual software. We have explained processing to develop actual software as the prerequisite for a lorough understanding of the fundamentals of Digital Signal Processing.

#### **Book Details:**

ISBN-13:

ISBN-10:

EAN:

Book language:

By (author):

Num pol pages:

Published on:

Category

978-620-4-19751-7

6204197517

9786204197517

English

Dr VELMANI RAMASAMY

Dr MOHANBABU G

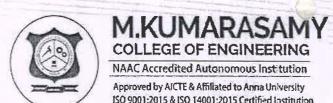
172

2021-08-09

Electronics, electro-technology, communications technology



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.



CERTIFICATE OF PRESENTATIO

Thalavapalayam, Karur - 639 113.

Awarded to

#### SHANKAR KANNAN P

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Presenter of the paper

Study on mechanical properties of palm - bamboo al glass fiber composites

at International Virtual Conference on Science Technology, Engineering and Management (IVSTEM-2021) on 30<sup>th</sup> & 31<sup>st</sup> December 2021 organized by Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur.

Dr.R.Kamalakannan Coordinator

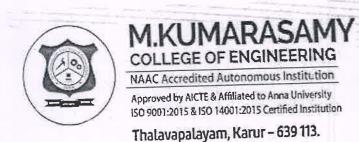
Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)

institute of Engineering and Technology Palani Road, Dindigul - 624 00:

Dr.C.Ramesh Head of the Department Department of Mechanical Engineering







# CERTIFICATE OF PRESENTATION

Awarded to

# Dr.M.MUTHUKANNAN

SSM institute of engineering and technology

Presenter of the paper

Current application of nano materials in various industries.

at International Virtual Conference on Science Technology, Engineering and Management (IVSTEM-2021) on 30<sup>th</sup> & 31<sup>st</sup> December 2021 organized by Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur.

BAS

Dr.R.Kamalakannan Coordinator c. 88.

Dr.C.Ramesh

Head of the Department

Department of Mechanical Engineering

Made for free with Certify'em

Or D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)

Principal

Principal

SCH in Part of Engineering and Technology

Auttathupatti Vilage, Sindalagundu (Po),

Fatani Road, Dindigul - 624,002.





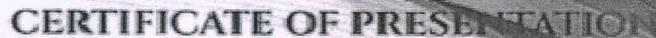
#### M.KUMARASAMY

COLLEGE OF ENGINEERING

VALUE Recorded Automorphism by the

A REPORT OF THE PROPERTY OF TH

Thalavagalayam, Kanur - 639 Tt3.



Awarded to

#### P.SHANKAR KANNAN

SSM institute of engineering and technology

Presenter of the paper

Current application of nano materials in various industries.

at International Virtual Conference on Science Technology, Engineering and Management (IVSTEM-2021) on 30th & 31th December 2021 organized by Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur.

Die

Dr.R.Kamalakannan Coordinator



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palaus Road, Dindigul - 624 002.



Dr.C.Ramesh
Head of the Department
Department of Mechanical Engineering





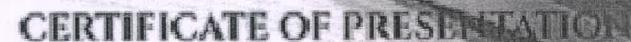
**M.KUMARASAMY** 

COLUMN OF ENGINEERING

faible, discombined hopers many least artists

Approximating the TESE arthropies to flow Calculations and a contract of the c

This pared years from - 650 Hb.



Awarded to

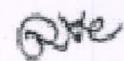
### M MUTHUKANNAN

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Presenter of the paper

Design and fabrication of solar chimney

Al International Virtual Conference on Science Technology, Engineering and Management (IVSTEM-2021) on 30<sup>th</sup> & 31<sup>th</sup> December 2021 organized by Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur,



Dr.R. Kamalakannan Coordinator



Principal
Institute of Engineering and Title Ong

Kuttathupatti Vicas indistrati Police III och ani col Engineering Palani Road, Diiddgui - 624 002





#### M.KUMARASAMY COLLEGE OF ENGINEERING

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University ISO 9001:2015 & ISO 14001:2015 Certified Institution

Thalavapalayam, Karur - 639 113.

## CERTIFICATE OF PRESENTATION

Awarded to

### SELWIN M

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGYSSM INSTITUTE OF

ENGINEERING AND TECHNOLOGY Presenter of the paper

Design and fabrication of solar chimney

at International Virtual Conference on Science Technology, Engineering and Management (IVSTEM-2021) on 30<sup>th</sup> & 31<sup>st</sup> December 2021 organized by Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur.

Oxe

Dr.R.Kamalakannan Coordinator



C. 6

Dr.C.Ramesh

NTHIL KUMARAN, M.E., Head of the Department

PriDepartment of Mechanical Engineering

SH Estitute of Engineering and Technology Entiatements Village, Stadelagundu (Po),

Made f





Thalavapalayam, Karur - 639 113.

#### CERTIFICATE OF PRESENTATION

Awarded to

#### Dr.V.KANDAVEL

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Presenter of the paper

Implementation of Crop Recommendation System through Digitized Agriculture Metrics using IoT

at International Virtual Conference on Science Technology, Engineering and Management (IVSTEM-2021) on 30<sup>th</sup> & 31<sup>st</sup> December 2021 organized by Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur.

DX4

Dr.R.Kamalakannan Coordinator Dr. C. Pamash

THIL KUMARAN, M.E., Ph.D., INC. P. C. Ramesh
Principal Head of the Department

Institute of Department of Mechanical Engineering

Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.





#### M.KUMARASAMY (\*) **COLLEGE OF ENGINEERING**

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University ISO 9001:2015 & ISO 14001:2015 Certified Institution

Thalavapalayam, Karur - 639 113.

#### CERTIFICATE OF PRESENTATION

Awarded to

#### Mrs. V.PREETHI

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Presenter of the paper

Implementation of Crop Recommendation System through Digitized **Agriculture Metrics using IoT** 

at International Virtual Conference on Science Technology, Engineering and Management (IVSTEM-2021) on 30<sup>th</sup> & 31<sup>st</sup> December 2021 organized by Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur.

Dr.R.Kamalakannan Coordinator

Dr.C.Ramesh Head of the Department

SSM Institute of Engineering

Kuttathupatti Village, Sindalagundu (Po), Palant Road, Dindigul - 624 002.



KUMARASAMY

Accredited Automorrous Institution

wed by ARCTE & Afficient to Anna University 01-2015 & ISO 14001-2015 Certified Institution

ayapalayam, Karur = 639 113.

# CERTIFICATE OF PRESENTAT

Awarded to

Dr. R. Subhaa

SSM Institute of Engineering and Technology

Presenter of the paper

T based Machine Condition Monitoring System for Sustainable Sma Manufacturing

at International Virtual Conference on Science Technology, Engineering and agement (IVSTEM-2021) on 30th & 31st December 2021 organized by Departi of Mechanical Engineering, M. Kumarasamy College of Engineering, Karur.

Pr.R.Kamalakannan Coordinator



Dr.C.Ramesh Head of the Departm

Principal Department of Mechanical E Kuttathupatti Village, Sindalagundu (Po),

Palani Road, Dindigul - 624 002.

Made for free with C