3.3.3.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

DVV C1: Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

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Date : .....

Dr. P. Ranjith Kumar, M.E., Ph.D.,
Principal

TO WHOM IT MAY CONCERN

This is to certify that the total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
29	9	26	2	2

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Five year data

2021-2016

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3.3.3 C1.Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings

Academic Year 2016-2021

SL.NO	Name of the Author	Name of books and chapters in edited volumes/books/conference papers	National / International	Year of publication
1	P.Sivamalar	Virtual international conference on artificial intelligence for iot and sustainable electrical networks (ICAIISEN' 21)	International	2021
2	K.Sathish kumar	Virtual international conference on artificial intelligence for iot and sustainable electrical networks (ICAIISEN' 21)	International	2021
3	P.Sivamalar	Virtual international conference on artificial intelligence for iot and sustainable electrical networks (ICAIISEN' 21)	International	2021
4	K. Chandrasekaran	IOP Conference Series: Materials Science and Engineering	International	2021
5	K. Chandrasekaran	Materials Today: Proceedings	International	2021
6	Dr.A.Punitha	National Conference on facinating advancement in mechanical Engineerig	National	2021
7	Dr. S. Berbeth Mary	International Interdisciplinary Virtual Conference on reakthroughs and Approaches in Contemporary Scientific Research	International	2021
8	Dr.D.Deepak	International Conference on Recent advancements in Information Technology Science & Engineering.	National	2021
9	S.Dinesh Babu	International Conference on Recent advancements in Information Technology Science & Engineering.	National	2021
10	P.Kavitha	International Conference on Contemporary approachon Revoutionary techniques in Science and Engineering	International	2021

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11	P.Kavitha	3rd International Conference on Innovations in Electrical, Information and Communication Engineering	International	2021
12	K.Karthikeyan	International Conference on Contemporary approachon Revoutionary techniques in Science and Engineering	International	2021
13	N.abdur rahman	International Conference on Contemporary approachon Revoutionary techniques in Science and Engineering	International	2021
14	G.Purushothaman	Cutting-Edge Research in Electrical Engineering CEREE in association with SRM TRPEC IEEE Student Chapter	National	2021
15	A. Senthamarai Kannan	Cutting-Edge Research in Electrical Engineering CEREE in association with SRM TRPEC IEEE Student Chapter	National	2021
16	A. Senthamarai Kannan	Cutting-Edge Research in Electrical Engineering CEREE in association with SRM TRPEC IEEE Student Chapter	National	2021
17	M. Isamil Gani	Cutting-Edge Research in Electrical Engineering CEREE in association with SRM TRPEC IEEE Student Chapter	National	2021
18	Dr.M.Sangeetha	Cutting-Edge Research in Electrical Engineering CEREE in association with SRM TRPEC IEEE Student Chapter	National	2021
19	Dr.M.Sangeetha	Cutting-Edge Research in Electrical Engineering CEREE in association with SRM TRPEC IEEE Student Chapter	National	2021
20	K. Chandrasekaran	Virtual National Conference On "DESIGN, MANUFACTURING AND AUTOMATION (NCDMA-2021)"	National	2021
21	K. Chandrasekaran	Virtual National Conference On "DESIGN, MANUFACTURING AND AUTOMATION (NCDMA-2021)"	National	2021
22	K. Chandrasekaran	International Conference on Technological Advancements in Mechanical Engineering (ICTAME 2021)	International	2021
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24	Dr. S. Berbeth Mary	6th International Conference on Nanoscience and Nanotechnology (ICONN-2021)	International	2021

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25	Chandrasekar M	Recent Advances in Communicative Electronics	National	2021
26	Chandrasekar M	Emerging Trends in Engineering and Technology	International	2021
27	Saravanan S	National Conference on facinating advancement in mechanical Engineerig	National	2021
28	Saravanan S	Innovations in Electrical Power and Green Engines	National	2021
29	Subapradha M	National Conference on facinating advancement in mechanical Engineerig	National	2021
30	Dr.A.Punitha	Technical Research Publications	National	2020
31	Ranjithkumar P, Kannan TTM, Ramulingam P .M, Chandrasekaran K, Ramanathan. R	Introduction to Mechanical Engineering	National	2020
32	Kannan TTM, Ranjithkumar P, Chandrasekaran K	Lambert Academic Publishing	International	2020
33	G.Rajeshkumar	Two days International Conference on Empowering Engineering and Technology(ICEET '2020)	International	2020
34	S. Murugavalli	International Conference on Artifical Intelligence for IOT and sustainable Electrical Networks	International	2020
39	S.Murugavalli	Two days International Conference on Empowering Engineering and Technology(ICEET '2020)	International	2020
36	Vinothini K, Senthamarai Kannan A	Electrical Power and Energy Syatems-2K20	National	2020
37	Vinothini K	Robotics & Automation Engineering-2K20	National	2020
38	Ismailgani M, G.Purushothaman	Electrical Power and Energy Syatems-2K20	National	2020
39	D.Saranya	International conference on innovative engineering initiatives (iciei) 2019	International	2019
40	S.Nandhini Devi	International conference on innovative engineering initiatives (iciei) 2019	International	2019

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41	S.Nandhini Devi	International conference on innovative engineering initiatives (iciei) 2019	International	2019
42	S. Murugavalli	INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING INITIATIVES (ICIEI) 2019	International	2019
43	S.Murugavalli	INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING INITIATIVES (ICIEI) 2019	International	2019
44	E.Priyanka	INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING INITIATIVES (ICIEI) 2019	International	2019
45	G.Rajeshkumar	INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING INITIATIVES (ICIEI) 2019	International	2019
46	M.Chandrasekar	International Conference on Innovative Engineering Initiatives	International	2019
47	K.Umarani	National Conference on Signal Processing and Communication Systems	National	2019
48	K.Umarani	National Conference on Signal Processing and Communication Systems	National	2019
49	P.SUDHA	second national conference on signal processing and communication systems	National	2019
50	P.SUDHA	second national conference on signal processing and communication systems	National	2019
51	Senthamarai Kannan A, Ranjithkumar M	Recent Trends in Electrical Engineering	National	2019
52	Senthamarai Kannan A	International Conference on Innovative Engineering Initiatives (ICIEI)	International	2019
53	Senthamarai Kannan A	International Conference on Recent Innovations and Developments in Mechanical Engineering (ICRIDME 2K19)	International	2019
54	R.Ramanathan	International Conference on Veracity Research in Scientific Computation and Engineering Trends	International	2019
55	K. Chandrasekaran	National conference on research and recent trends in mechanical sciences	National	2019
56	S.Maniam Ramasamy	National Conference on Research & Recent Trends in Mechanical Sciences	National	2019
57	S.Maniam Ramasamy	National Conference on Research & Recent Trends in Mechanical Sciences	National	2019
58	R.Ramanathan	International Conference on Veracity Research in Scientific Computation and Engineering Trends	International	2019

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59	R.Ramanathan	International Conference on Veracity Research in Scientific Computation and Engineering Trends	International	2019
60	R.Ramanathan	National Conference on Research & Recent Trends in Mechanical Sciences	National	2019
61	K. Chandrasekaran	National Conference on Advancements in Mechanical Manufacturing & Civil Engineering	National	2019
62	K. Chandrasekaran	National Conférence on New Scientific Creationsl In Engineering and Technology	National	2019
63	K. Chandrasekaran	National Conference on New Scientific Creationsl In Engineering and Technology	National	2019
64	K. Chandrasekaran	International conference on Newer Engineering concepts& Technology-2k18	International	2019
65	T.Ashok	International conference on Modern trends in Engineering & Research	International	2018
66	R.Ramanathan,	National Conference on New Scientific Creationsl In Engineering and Technology	National	2018
67	K. Chandrasekaran, R.Ramanathan	International Conference on Recent advancements in Information Technology Science & Engineering.	International	2017
68	R.Ramanathan, K. Chandrasekaran	International Conference on Recent advancements in Information Technology Science & Engineering.	International	2017

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Academic Year

2020-2021

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E-CONFERENCE PROCEEDINGS

Virtual International Conference

on

Artificial Intelligence for IoT and Sustainable Electrical Networks

ICAIISEN' 21

on

29.04.2021

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FALL DETECTION AND DAILY LIVING ACTIVITY RECOGNITION USING MACHINE LEARNING

S.KAMARAJ, S.KARTHEESWARAN, M.MOHAMED SAFAR NIYAS
Department of CSE
BANNARI AMMAN INSTITUTE OF TECHNOLOGY

Advances in the diagnosis and treatment of diseases have led to an increase in life expectancy. So, the number of elderlies in society is increasing dramatically. By 2022, the number of people aged 60 years and older will outnumber children younger than 5 years. The energy and strength of people might fall with age. The majority of older people would like to live without the help of others. So, they are susceptible to fall incidents which are often serious and might cause death. To address this problem, it is important to implement a fall detection system. The real-time human pose can be estimated by using the PoseNet machine learning model. The PoseNet model takes an image as an input and gives back the key points detected in that image with a confidence score for each point. By using these points, human activities could be recognized. For example, if the nose, shoulders, and ankles are stacked vertically and within a narrow horizontal range, then the activity is recognized as standing activity. An activity is recognized as a fall if a person changes from a standing position to a prone position in a very short period. In the same way, the activities like walking, sitting, and lying can be recognized. The maximum accuracy of the fall detection and daily activity recognition system could be achieved at the expense of performance.

SQL INJECTION ATTACK DETECTION IN WEBSITES

Shivamalar, A.Havisha monal, R.Kowsalya, K.Divya

Department of CSE

M.A.M school of Engineering

Web applications are broadly used nowadays. the demand of e-commerce websites are also in increase today and it fully depends on cash exchange services like on-line banking, e-shopping, on-line charge installment, Currency exchange, and more,SQL is defined as the midstream of mesh server and database server scripting languages which is used for execution processes. SQL Infusion assault is one of the top most attacks which are done by intruders to hack database records without web admin knowledge, Detection of SQL Injection Attack is quite different from other attacks because intruders changed SQL query behavior by inserting some inputs through input forms. The research work identifies the sql assault infusion by proposing the methodology which includes validation process and encryption process to adopt information security principles. The proposed work is implemented in tools like php and mysql which consists of supportive built-in procedures to use security schemes like MD5 functions and carefully examined the intrusion activity and prevents the intruders by mitigating their malicious usage in the network.

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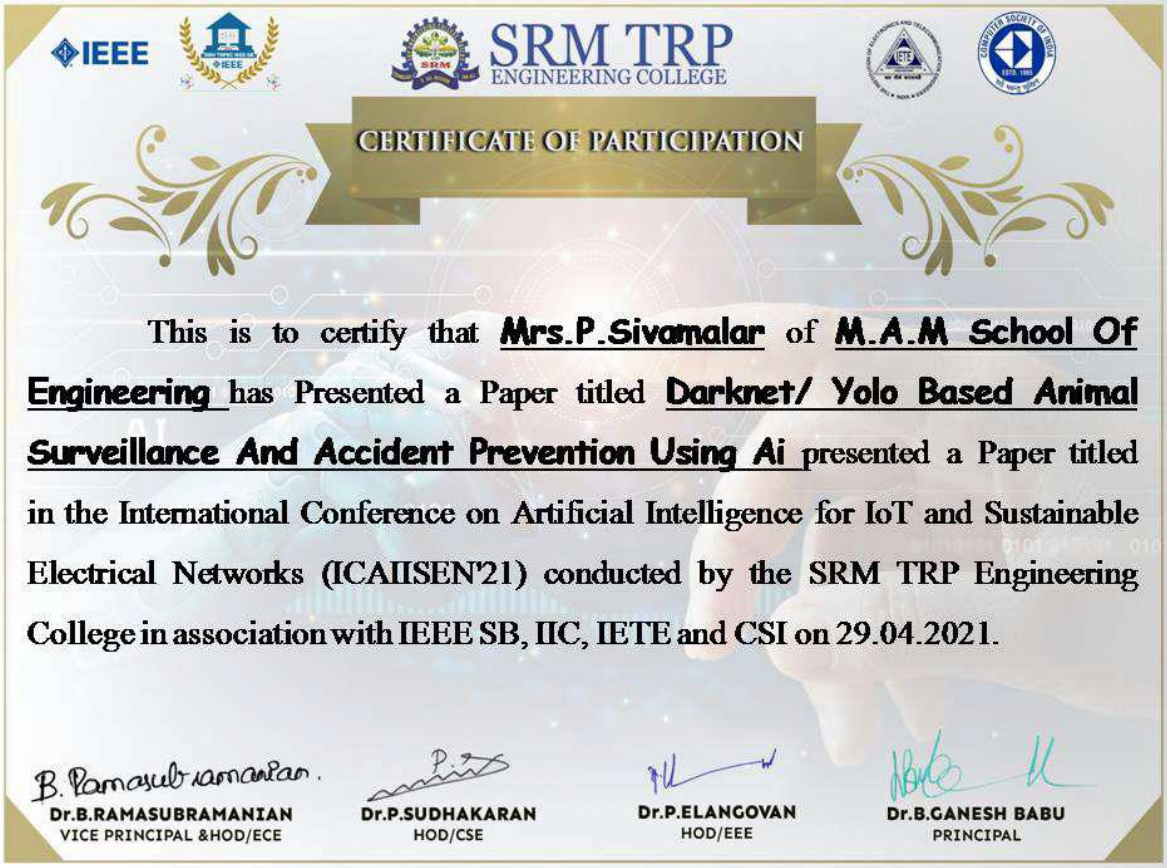
This is to certify that Mrs.P.Shivamalar of M.A.M school of engineering has presented a Paper titled SQL injection attack Detection in websites in the International Conference on Artificial Intelligence for IoT and Sustainable Electrical Networks (ICAIISEN'21) conducted by the SRM TRP Engineering College in association with IEEE SB, IIC, IETE and CSI on 29.04.2021.

Dr.B.RAMASUBRAMANIAN, VICE PRINCIPAL &HOD/ECE
Dr.P.SUDHAKARAN, HOD/CSE
Dr.P.ELANGOVAN, HOD/EEE
Dr.B.GANESH BABU, PRINCIPAL



SRM TRP ENGINEERING COLLEGE

CERTIFICATE OF PARTICIPATION

This is to certify that **Mrs.P.Sivamalar** of **M.A.M School Of Engineering** has Presented a Paper titled **Darknet/ Yolo Based Animal Surveillance And Accident Prevention Using Ai** presented a Paper titled in the International Conference on Artificial Intelligence for IoT and Sustainable Electrical Networks (ICAIISEN'21) conducted by the SRM TRP Engineering College in association with IEEE SB, IIC, IETE and CSI on 29.04.2021.

Dr.B.RAMASUBRAMANIAN, VICE PRINCIPAL &HOD/ECE
Dr.P.SUDHAKARAN, HOD/CSE
Dr.P.ELANGOVAN, HOD/EEE
Dr.B.GANESH BABU, PRINCIPAL

SPEECH RECOGNITION USING PYTHON

S.Sabarish, R.Rithika, R. Sathya
Department of CSE
Bannari Amman Institute of Technology

Nowadays, Speech Recognition has become an increasing concept and popular in recent years. If the document to be written is too long, it is difficult to type within the given time and it makes the user bored to type. And also reading text is difficult for the people who have Dyslexia and other inabilities. Speech recognition helps the computer to translate the speech signal into text or commands through the detection and comprehension process. The main objective of speech recognition is to attain normal communication between human and the machines. In the project the voice has been recognized Using a microphone, we can get the user's input and PyAudio converts speech to string. By the help of Speech Recognition, it makes the user time flexible and allows them to create the documents by recognizing the voice as an input and the document will be created faster as soon as possible when compared to a person typing the document. Speech Recognition involved in many fields like psychology, signal processing and even body language of humans.

FAST DETECTION OF TRANSFORMED DATA LEAKS IN WIRELESS SENSOR NETWORK

K.Sathish Kumar, M.THANGAM, M.SOWMIYA, J.UDHAYANITHI
Department of CSE
MAM SCHOOL OF ENGINEERING

Wireless Sensor Networks (WSNs) are emerging as a promising technology because of their wide range of applications in industrial, environmental monitoring, etc. Because of their inherent resource-constrained characteristics, they are prone to various security attacks that seriously affects data collection. The current trust-based route strategies face some challenging issues: (1)the core of a trust route lies in obtaining trust. (2) Energy efficiency. Because it is difficult to locate malicious nodes, the security route is still a challenging issue. Thus, there are still issues worthy of further study. Security and trust routing through an active detection route protocol is proposed in this project. The Active Trust scheme fully uses residue energy to construct multiple detection routes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This is to certify that Mr. K.Sathish Kumar of MAM School of Engineering has presented a Paper titled Fast Detection of Transformed Data Leaks In Wireless Sensor Network in the International Conference on Artificial Intelligence for IoT and Sustainable Electrical Networks (ICAIISEN'21) conducted by the SRM TRP Engineering College in association with IEEE SB, IIC, IETE and CSI on 29.04.2021.
Dr.B.RAMASUBRAMANIAN
VICE PRINCIPAL &HOD/ECE
Dr.P.SUDHAKARAN
HOD/CSE
Dr.P.ELANGOVAN
HOD/EEE
Dr.B.GANESH BABU
PRINCIPAL

DARKNET/ YOLO BASED ANIMAL SURVEILLANCE AND ACCIDENT PREVENTION USING AI

R.Ranjith, Mrs.P.Sivamalar, M.Sharmila,
Department of EEE
M.A.M SCHOOL OF ENGINEERING

Measurement and Control is an important aspect in the Automation Industry. When it comes to manufacturing companies, the first thing we will notice is that they are all automated. Measuring water Flow Rate and Volume plays a Vital Role in the usage of water in the Measurement and control for various processes in Automation Industries. Manufacturing and process measure and quantify the liquids that they are handling during this automation process and the most common sensor used to measure the Flow Rate and Volume of a liquid using a Flow Sensor in the Flow Module. In this project, we are built a water flow sensor using Arduino by which we have connect the water flow sensor, which is the Flow Module with the Main module that is Arduino and Display Module that is Displays the Flow Rate and Volume and to program it in the Arduino Board by interfacing with the system, when the Water Flows through the particular system for the Process in the Automation Industries. Our main aim is to spread awareness regarding the uncontrolled and ineffective means of supply and usage water resources and aims to reduce the practice of casual wastage of water by helping the consumer maintain a metric of the usage such that initial steps are taken to suppress the common trend to profligate water Usage Monitoring and by Measuring Water Flow Rate and Volume using Arduino and Flow Sensor, we can give the digital Indication of Flow Rate and volume in a particular system in the Flow Process. In this Project after the execution of output it will play a Vital Role in the Domestic and Industrial sector by recording and storing of graphical data in the day today usage activity by which we can control the Usage and Consumption of water to a maximum extent and prevent excess wastage of water by the Measurement of Water Flow Rate and Volume using Arduino and Flow Sensor.

OCULUR FUNDUS IMAGE SEGMENTATION AND CLASSIFICATION USING NEURAL NETWORK ALGORITHM

S. DEVA PRIYA ,SIVANI BASKARAN ,B.NIVETHA ,K.SIVABHARATHI C.ISHWARIYA
Department of CSE
AND SRM TRP ENGINEERING COLLEGE

Batteries of light electrical vehicles ideally need high efficient chargers for better functioning. The chargers which contain bridge rectifiers have high conduction losses associated with the input diodes. These conduction losses can be reduced by the bridge - less configuration. The reverse recovery losses of the output diodes can be reduced by providing zero current switching which is done by the series-resonance circuit. A high-frequency transformer is used to ensure galvanic isolation for user safety. Also, from the secondary terminal, we can get high frequency voltage. This voltage can be used for high ac voltage applications. Because of inherent high boost characteristic of the current fed parallel resonant converter, it is suitable for step-up power conversions. Hence less turns-ratio is required for the transformer. Instead of LC for the output filters single capacitor is applied, so the circulating energy within the circuit is minimized. By the clamping of the maximum voltage of the resonance capacitor to the output voltage. The ZCS can be offered to the rectifying diodes by the clamping of the maximum voltage. A 150W prototype was used to verify the performance of the proposed converter. By using the proposed charger, we can get efficiency in the range of 92%. The 255 kHz with 12 v input and 50 v


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HOD/EEE
Dr.B.GANESH BABU
PRINCIPAL

Optimization of Parameters for Nitronic-60 on Wire-Cut Electrical Discharge Machining using Zinc-Coated Wire

V. Srinivasa Reddy[1*], V. Gopinath[1*], M. Haritha[1*], P Marimuthu[12*], K.Chandrasekaran[3], and N S Kalyan Chakravarthy[4*]

[1]Department of Mechanical Engineering,
[3]Department of Mechanical Engineering, MAM School of Engineering, Tiruchirappalli, India
[4] Department of Data Science and Business Systems
*QIS College of Engineering and Technology, Vengamukkapalem, Ongole, Prakasam
District, Andhrapradesh-523 272, India
[2]Email: pmarimuthu69@gmail.com (Corresponding author)

Abstract. The objectives of this work are to research the effective parameters of pulse ON time; pulse OFF time; voltage & wire feed whereas machined on Nitronic-60 exploitation wire-cut discharge machining exploitation zinc-coated wire. During this work, metal removal rate, surface roughness, and kerfwidth are taken as output parameters. The experimental results planned an optimum combination of parameters that provide the utmost material removal rate, minimum surface roughness, and kerf dimension. Finally, confirmation experiments were disbursed to spot the effectiveness of the planned technique. Multivariate analysis and ANOVA are performed exploitation Response Surface Linear Model.

1. Introduction

Machining eliminates certain components of work piece items to alter them to finished components. Machining are classified into ancient machining and Non-traditional machining. Ancient Machining, conjointly referred to as typical machining needs the tougher tool than the work piece. This tool ought to be pierced within the workpiece to a definite depth. Besides, a motion between tool and workpiece is to blame for creating or producing the desired form. The nonappearance of any of those parts in machining method like the absence of tool and workpiece contact or relative motion makes the method a non-traditional one.

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Characteristic analysis of dissimilar metal weld for AISI304 with SA213T22 in super heater coils

K. Chandrasekaran [a,*], P. Ranjith Kumar [a], R. Ramanathan [a], J. Chandradass [b], T.T.M. Kannan [c], A. John Rajan [d]

[a] Department of Mechanical Engineering, MAM School of Engineering, Trichy 621105. India
[b] Centre for Automotive Materials, Department of Automobile Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai 603203, India
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Grey Analysis

ABSTRACT

Super heater is an inevitable component of any boiler system and failure of super heater leads to breakdown of whole plant. The integration of efficient quality welding technologies for dissimilar metals will be a key component in the successful weld quality for power plant components. In this investigation, an attempt has been made to study the dissimilar material AISI304 and SA213T22 tungsten inert gas welding is performed under different welding conditions current (100, 115, 130 Amps), gas flow rate (6, 8, 10 ltr/min), speed (2, 2.5, 3 mm/sec) and micro structure analysis performed to find influence of fusion heat. The Taguchi analysis is implemented to obtain single response optimization and grey relational analysis used to attain multi response for best yield strength, the ultimate strength, Vickers hardness and the elongation of the metals.

1. Introduction

Super heater is basically a heat exchanger in which heat is transferred from furnace gas to the steam. Improper heat transfer between steam and furnace gas leads to problems of localized heating and damage the welding spots. These coils are made up of alloy steel SA213T22 which has corrosion resistance and it cannot withstand continuous high temperature. The super-heater coils are made up of SA213T22 which can withstand up to 540 °C metal temperatures and final stage super-heater stream temperature of more than 565 °C with the increase in steam pressure with their required dissimilar materials. AISI304 has superior properties such as resistance to fire side corrosion and a stream temperature of 650 °C for final super-heater. Hence, the dissimilar materials are introduced to reduce the damage and an interchange material AISI304 is attempted to replace this super-heated coil. The dissimilar material welding is not possible to make a fusion weld and welding parameters are affecting the welding quality. The dissimilar materials welding have been continuously explored and the related valuable studies presented by the past researchers are given below. Guo Ming et al. [2] studied the dynamic temperature field of laser welding on stainless steel. It was dynamically simulated by the FEA software ANSYS using transient heat conduction equation. Kain et al. [3] studied the failure of a few super heater tubes at localized regions in an atmospheric fluidized bed combustor. Uger esme and Mehim bayramoglu et al. [4] have used AISI 304 Stainless steel plate. TIG welding machine is used. The input parameters are travel speed, current, nozzle plate distance. The output parameters are bead penetration and tensile load. The optimal weld pool geometry has four smaller-the-better quality characteristics, i.e. the front height, front width, back height and back width of the weld pool. The modified Taguchi method is adopted to solve the optimal weld pool geometry with four smaller-the better quality characteristics. Experimental results have shown that the front height, front width, back height and back width of the weld pool in the TIG welding of stainless steel are greatly improved by using this approach. Ahmad et al. [1] investigated excessive hoop stresses are the cause of failure in on a super alloy Inconel-800 super heater tube. Vibhav gupta et al. [6] found primary reason

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PROCEEDINGS

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TENTH NATIONAL CONFERENCE

ON

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FAME 2021

April 5th, 2021

Editors

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CONTENTS

AUTOMATIC GARMENTS FOLDING MACHINE

Punitha. A[1], Ahmed Rifath. S[2], Mohamed Ithyas.I[3], MohammedHussain.M. R[4],
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ABSTRACT

Automatic Garment Folding Machine (AGFM) is a simple and valuable cycle in this universe. The reason for this paper is to overlay shirt simply by squeezing a switch. The AGFM is completely programmed where one need to simply put the shirt on the board and press the beginning switch and inside part of seconds the shirt will get folded. This thought will certainly be a useful for Textile industries, Laundry, etc. This energy and time can be saved by this programmed AGFM and can be utilized in some other work. By large individuals get exhausted for collapsing the garments in the wake after sewing so they dump them for what it's worth in the cabinet. This prompts wreck in cabinet and makes troublesome in discovering garments in crisis case. To survive above expressed issue, a savvy machine will design that will identify the shirt and crease. This AGFM will require less human contribution.

Keywords: AGFM, Laundry, Garments, sewing, savvy.

1.INTRODUCTION

Nowadays, many industries were pushed on the basis of the boundaries of autonomous vision and processing of supple materials like fibers, textiles, and garments. The textile industry hasn't seen much advancement in terms of technology, which will help it reach the gold standard in mechanism supply in the foreign market, which is entirely automation in the textile industry's manufacturing sector. The primary goal is to automate the cloth folding process used in the fabric manufacturing industry. In addition to the automatic folding process of the cloth, this aims to implement greater automation through the design of an

automated sorting mechanism based entirely on the color of the fabric. This will ensure the complete automation of the textile enterprise that was missing. With the existing substances and parts, the device could be built as a good way to add simplicity and most significantly, price efficiency to the machine. The implementation of the whole assembly will be integrated without difficulties with the modern-day equipment being used inside the modern-day machine being used inside the industry without any major adjustments.

2. LITERATURE SURVEY

Yuliyanto agung prabowo et.al [13] proposed the identification of the Flip Folder Folding Machine Using Artificial Neuro Network Method with NARX (Nonlinear Auto Regressive Exogenous) Structure-I. As Folding machine is a tool that is needed in the small and medium scale laundry industry that has a goal for the efficiency of production time. The flip folder is the main component of this tool, which functions to fold the clothes by moving to form a certain deflection angle where the movement process is controlled by the controller. The system modelling process is the first step to study the characteristics of the system. In a dynamic system, the form of linear modelling is approved difficult to obtain a model that represents the actual physical model. Selecting the structure of the NARX (Nonlinear Autoregressive exogenous) model was chosen to obtain the dynamic nature of the system. An estimation method to obtain parameter values from the system used Artificial Neural Networks (ANN), which is a trading scheme to be able to predict the output of a system that uses input data and output.

David Estevez et.al [1] proposed towards Robotic Garment Folding. In this, a Vision Approach for Fold Detection method is utilised as a current trend in robotics. Previously to folding clothes, they have to be unfolded. It is not realistic to perform model-based unfolding, as every garment has a different shape, size, colour, texture, etc. In this paper we present a garment-agnostic algorithm to unfold clothes that works using 3D sensor information. The depth information provided by the sensor is converted into a grayscale image.

J. Stria et.al [7] described the paper as Garment perception and its folding using a dual-arm robot. As Assistive robots need to be able to perform a large number of tasks that imply some type of cloth manipulation. These tasks include domestic chores such as laundry handling or bed-making, among others, as well as dressing assistance to disabled users. Due to the deformable nature of fabrics, this manipulation requires a strong perceptual feedback. common perceptual skills that enable robots to complete their cloth manipulation tasks are reviewed here, mainly relying on vision, but also resorting to touch and force. The use of such basic skills is then examined in the context of the different cloth manipulation tasks, be them garment-only applications in the line of performing domestic chores, or involving physical contact with a human as in dressing assistance.

3.IMPLEMENTATION

The Framework used by the author to carry out this research using foam sheet the main frame that will later house the Arduino Atmega Servo 1, Servo 2, Servo 3, LCD display, Power supply and other components. All other Components mentioned above are

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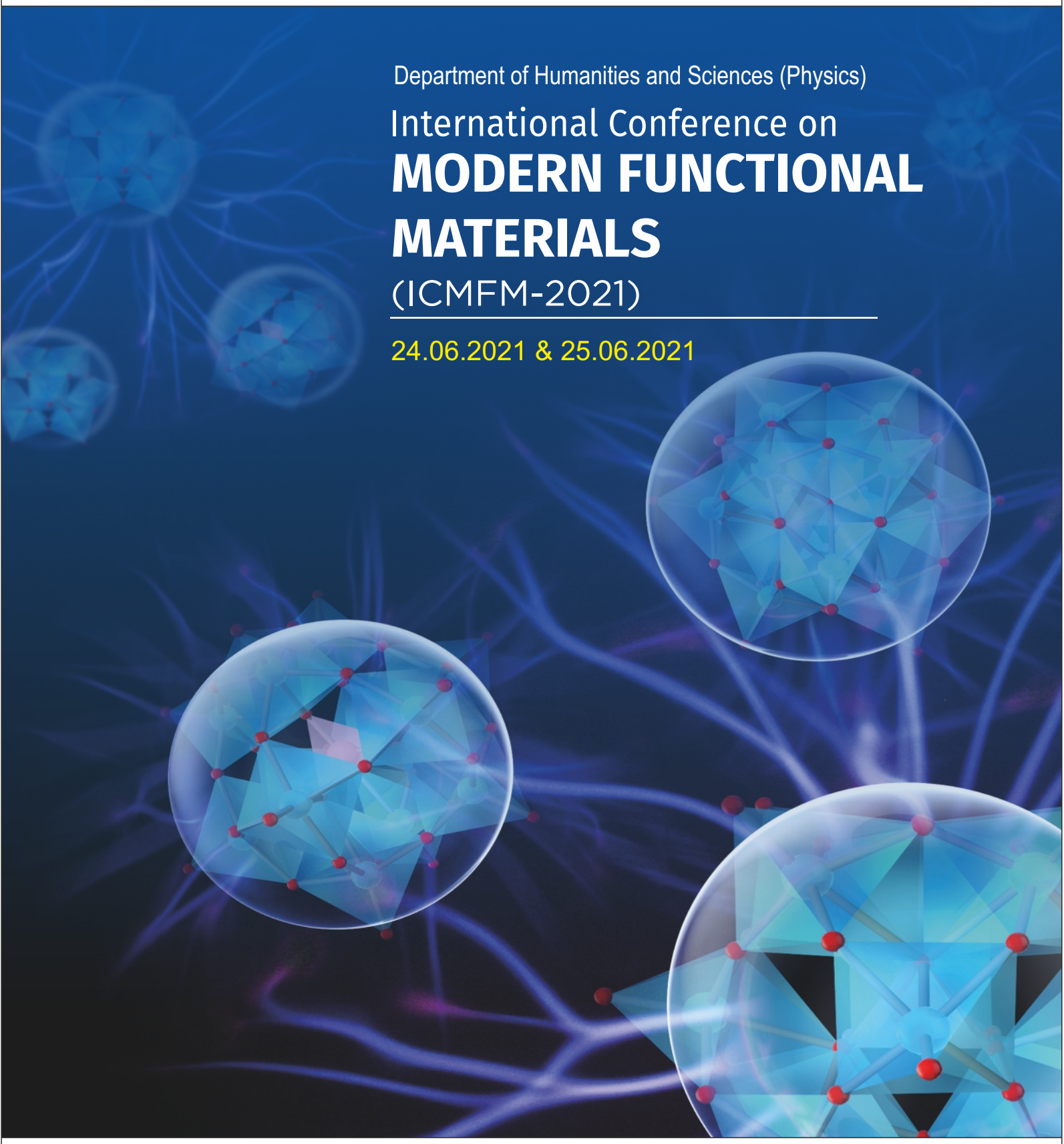

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ORAL PRESENTATION 2 & 3

SESSION 2B : 25.06.2021 - 12.00 PM - 01.00 PM (IST)

Panel Judge		**Dr. R. Mohan Kumar**, Associate Professor Department of Physics, Presidency College, Chennai	
Host		Dr. G. Sathish kumar, Member, ICMFM 2021	
S. No	**Abstract ID**	**Title of the presentation**	**Name of the Presenter**
	ICMFM21 – OP 44	Effect of Dense Electronic Excitation on the Optical and Electronic Properties of GO-TiO_2 Hybrid Nanostructures	Sanjeev Kumar
2	ICMFM21 – OP 45	Monitoring and control of electrical parameters fed from battery to motor of an electric vehicle	T. Arun Srinivas
3	ICMFM21 – OP 46	Preparation of reduced Graphene Oxide Copper Tin Sulphide Nanocomposites for Photovoltaic Application	V. Menaka
4	ICMFM21 – OP 47	Enhanced Transparency and Antibacterial Activity of Silver Doped Cadmium Sulfide Nanoparticles	C. Selvakumar
5	ICMFM21 – OP 48	Electrospun Nanofiber Mats as "Smart Surfaces" for Desorption Electrospray Ionization Mass Spectrometry (Desi Ms)-Based Analysis and Imprint Imaging	Mohd Azhardin Ganayee
6	ICMFM21 – OP 49	Polymer based synthesized ZnO nanoparticles for biological applications	K. Priyadharsini
7	ICMFM21 – OP 50	Mechanosynthesized visible-light active Gd_2O_3 / g- C_3N_4 /V_2O_5 heterojunction nanocomposite photocatalyst for industrial wastewater purification	Moumita Mondal
25-06-2021		**Session – 3B**	**2.00 PM – 3.00 PM (IST)**
1	ICMFM21 – OP 72	IOT Healthcare Systems Environments	G. Ramachandran
2	ICMFM21 – OP 73	Oleylamine Assisted Bismuth Iron Oxide by Hydrothermal Method	Venkat Uma
3	ICMFM21 – OP 74	Effect of annealing and sintering on thermoelectric properties of surfactant assisted Nanostructured Calcium Cobalt oxide	S. Berbeth Mary
4	ICMFM21 – OP 75	Synthesis and characterization of crystal structure, spectroscopic, crystalline perfection and optical studies of Bis-glycine hydrobromide single crystals	J. Venkatamuthu kumar
5	ICMFM21 – OP 76	Coconut fibre-based Carbon Nano Materials for Ulhas River Wastewater Treatment	Sandesh Jaybhaye
6	ICMFM21 – OP 77	Unsteady MHD Casson Nanofluid Flow induced by Stretching Sheet in presence of Chemical Reaction by using Buongiorno's Model	Vinita
7	ICMFM21 – OP 78	Zn doped Copper ferrite spinel nanoparticles for photocatalytic activity towards rhodamine B under Visible light irradiation	A.Tony Dhiwahar

Effect of annealing and sintering on thermoelectric properties of surfactant assisted Nanostructured Calcium Cobalt oxide

S. Berbeth Mary[1]*, Dr. A. Leo Rajesh [2]

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Abstract

Thermoelectric technology provides the solution for the energy crisis and global warming problem with abundant advantages like less toxicity, maintenance free operation, no moving parts, no chemical reactions and absence of global warming gases. Thermoelectric deviceconverts waste thermal energy into electricity via Seebeck effect and vice versa via Peltier effect. The conversion efficiency is measured by a dimensionless figure of merit(ZT). Perovskite calcium cobalt oxide is a promising p-type oxide material for high temperature thermoelectric applications. These ceramic nanopowderswere prepared by sol-gel hydrothermal method followed by annealing. The systematic analysis revealed the impact of annealing temperature and sinteringon the morphology and particle size of the nanoparticles. The prepared nanoparticles were characterized by thermal analysis, X-ray diffraction, Raman analysis, scanning electron microscope with energy dispersive analysis and thermoelectric studies. Pure and poly crystalline calcium cobalt oxide nanoparticles were obtained and its average particle size were calculated by Scherrer formula. Raman analysis showed the vibrational modes at low frequencies related to calcium and cobalt whereas modes observed at higher frequencies are associated with lower atomic mass element oxygen. The sintered sample showed higher density than the prepared one. Thermoelectric properties were measured for the sintered sample between ambient temperature and 600^{o}C.

Keywords: Thermoelectrics, perovskite, hydrothermal, annealing, sintering

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Author : DEEPAK D, MAM SCHOOL OF ENGINEERING

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Author : K CHANDRASEKARAN, MAM SCHOOL OF ENGINEERING

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Dr./Mr./Ms. CHANDRASEKHAR.M

of

M.A.M.SCHOOL OF ENGINEERING

has presented a paper titled

SMART SPEED BREAKING SYSTEM FOR EMERGENCY VEHICLES BY USING RFID

in the Virtual National Conference on "Recent Advances in Communicative Electronics (NCRACE 2021)" conducted by the Department of Electronics and Communication Engineering, SRM TRP Engineering College, Tiruchirappalli on 25.03.2021.

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ICETET'21

12th & 13th March, 2021

This is to certify that Dr/Mr/Ms M CHANDRASEKAR of M.A.M School of Engineering, Thiruchirapalli has participated & presented a paper entitled Incidence of Fatal Pedestrian Collisions and Vehicle Speed Control in 8th International Conference on Emerging Trends in Engineering and Technology (ICETET'21) held on 12th & 13th March, 2021.

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FAME 2021

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Mr. S. SARAVANAN

MAM SCHOOL OF ENGINEERING has presented a paper titled

GENERATION OF HIGH VOLTAGE WITH VOLTAGE MULTIPLIER

in the Tenth National Conference on "Fascinating Advancements in Mechanical Engineering" organised by the Department of Mechanical Engineering & Mechanical Engineering Association, R.M.K College of Engineering and Technology held on 05th April 2021.

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Department of Electrical and Electronics Engineering

Virtual National Conference on Innovations in Electrical Power and Green EnergieS

(NCIEPGES'21)

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This is to certify that Prof./Dr./Mr./Ms./Mrs. Mr. S.Saravanan, Assistant Professor, Department of Mechatronics of M.A.M. School of Engineering has participated and presented his/her Paper titled GENERATION OF HIGH VOLTAGE WITH VOLTAGE MULTIPLIER in the Virtual National on Innovations in Electrical Power and Green EnergieS (NCIEPGES'21) held on 24th March 2021 in Virtual mode organized by M. Kumarasamy College of Engineering, Karur, Tamil Nadu – India.

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Dr./Mr./Ms. M.SUBA PRADHA

of

M.A.M SCHOOL OF ENGINEERING

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SMART SEWAGE MANAGEMENT SYSTEM

in the Virtual National Conference on "Recent Advances in Communicative Electronics (NCRACE 2021)" conducted by the Department of Electronics and Communication Engineering, SRM TRP Engineering College, Tiruchirappalli on 25.03.2021.

B. Ramasubramanian.

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Academic Year

2019-2020

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings

Academic Year 2019-2020

SL.NO	Name of the teacher	Name of books and chapters in edited volumes/books/conference papers	National / International	Year of publication
1	Dr.A.Punitha	Technical Research Publications	National	2020
2	Dr.P.Ranjithkumar , Kannan TTM, Ramulingam P.M, Dr.K. Chandrasekaran, Ramanathan. R	Introduction to Mechanical Engineering	National	2020
3	Kannan TTM, Ranjithkumar P, Dr.K.Chandrasekaran	LAMBERT Academic Publishing	International	2020
4	G.Rajeshkumar	Two days International Conference on Empowering Engineering and Technology(ICEET '2020)	International	2020
5	S. Murugavalli	International Conference on Artifical Intelligence for IOT and sustainable Electrical Networks	International	2020
6	S.Murugavalli	Two days International Conference on Empowering Engineering and Technology(ICEET '2020)	International	2020
7	Vinothini K, Senthamarai Kannan A	Electrical Power and Energy Syatems-2K20	National	2020
8	Vinothini K	Robotics & Automation Engineering-2K20	National	2020
9	Ismailgani M, G.Purushothaman	Electrical Power and Energy Syatems-2K20	National	2020

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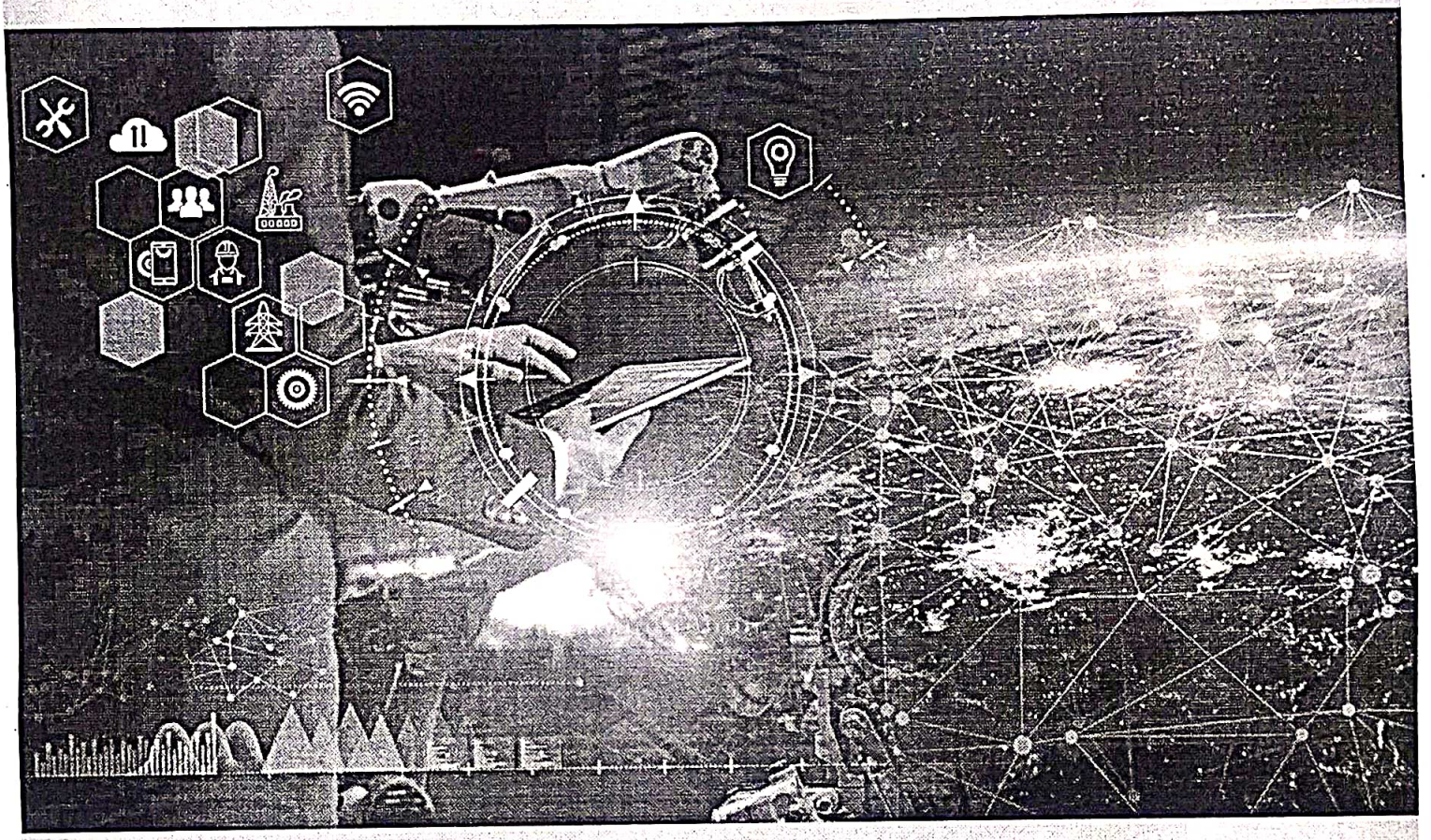

Chapter 17: Wireless Ad-hoc & Sensor Networks

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Technical Research Publications
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WIRELESS AD-HOC & SENSOR NETWORKS

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Abstract: Wireless Ad-hoc Sensor Networks (WASN) have become the most standard specialized advancement in business and mechanical applications. The utilization of WASN alongside Zigbee norms in Wireless Personal Area Networks (WPAN) has prepared for powerful data assortments with ideal utilization of network assets. Zigbee Technology is intended for minimal effort of arrangement, low multifaceted nature and low force utilization. This chapter presents an extensive audit on WASN and its routing protocols. This chapter additionally presents a point by point portrayal of Zigbee innovation, its different principles and empowering advancements.

Keywords: WASN, WPAN, Zigbee and QoS.

I. INTRODUCTION

WASN has become the most standard specialized advancement in business and mechanical applications for estimating and breaking down physical conditions and checking for security purposes, keen spaces and clinical frameworks [1]. In wireless connections the misfortunes can happen because of obstruction and blurring of the sign during transmission over significant distances. Consequently, to defeat these issues in WASNs, the Zigbee innovation created by Zigbee Alliance is utilized for powerful conveyance of services in WASN. The viable lifetime of

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CHAPTER - 12

Experimental Investigation and design Optimization of Roundness error of Micro drilling process on AISI316 sheets

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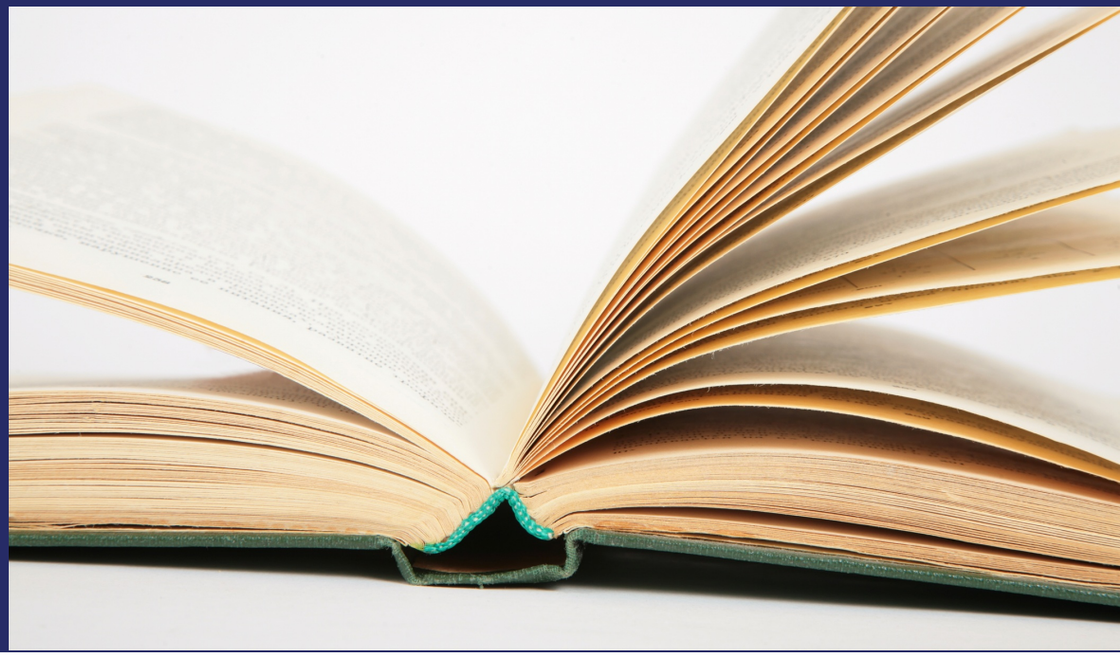
Abstract

The various methods for producing microstructures such as micro-holes which find wide spread application in highly sensitive products such as automotive fuel injection nozzles, watches, medical electronics, and camera parts requires a high degree of accuracy in its profile parameters. Micro drilling is the most ideal micromachining process to generate micro-holes, can generate deeper holes with better straightness, better roundness, and smoother surfaces. This paper focuses on micro drilling techniques that have been used in producing micro-holes along with the various strategies that have been adapted to improve the accuracy in hole dimensioning and its shape. The experiments are designed to L_{27} orthogonal array which contains spindle speed, feed rate and point angle are the input parameters and roundness error is a response parameter of micro drilling process in (AISI316) Austenite Stainless steel sheets. The experiments are conducted in Mini drilling machine and micro holes are produced by 0.5mm High carbon steel drill with help of micro drill jig. The optimum parameters of micro drilling process are predicted by using Taguchi design of experiment and analyzed by signal to noise ratio(S/N ratio) and analysis of Variance (ANOVA).Results lower roundness error is produced by lower level spindle speed, medium level feed rate and high degree of point angle of drill.

Keywords: Micro drilling, AISI 316 sheet, Drilling parameters, roundness error, Taguchi DOE, S/N ratio, ANOVA.

MEMS is a promising technology in 2020 which is used to fabricate micro machines for micro factory concept. Pocket factory is a small dimension factory suitable for small production system with environment. It leads to sustainable manufacturing system such as economic, environment and social. The main objective of this work which implement micro factory concept in micro manufacturing system. Main features of pocket factory are energy efficient, table top portable, degree of accuracy, high speed and reliable.



Kannan ttm
RANJITHKUMAR p
CHANDRASEKARAN k

Development of MEMS based Pocket factory for Sustainable manufacturing

Dr.T.T.M.Kannan is working as an Associate Professor in the Department of Mechanical Engineering in M.A.M.School of Engineering, Tiruchy, Tamilnadu, India. He has published more than 50 research articles, filed and published 5 patents in IPR (INDIA). He is a member of IE (INDIA). He is expertise in the area of Micro Factory and Pocket Factory.

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Efficient Intrusion Detection System of Botnet Command and Control Traffic

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Abstract— **Nowadays high-speed computer networking and the Internet brought great convenience, a number of security issues also emerged with these technologies. Unfortunately, a new type of crime has also emerged along with the Internet: cybercrime and computer network security threats such as viruses and worms, botnets have become one of the most malicious threats over the Internet. Criminal attacks are launched from bots. Every single Internet-connected computer, containing: Personal Computers, mobile phones, network printers, embedded devices, and industrial process controllers, can be twisted into a bot by malware infection. In this project, we describe the issue in developing effective intrusion detection systems for botnet command and control traffic detection. Each detection method analyzes the network traffic to detect one technique used for command and control communications detection and block the connections. The three discovery methods are initially examined, these are: Untrusted Destination by Identifier (UDI), malicious SSL certificate, Traffic Flow Causality (TFC).**

Keywords— —Cyber attacks, malware, botnet, server, intrusion detection system.

I. INTRODUCTION

Botnets [1] [2] play an important role in cybercrime. A botnet consists of a large group of remotely controllable computers or bots. The bots are controlled by an individual or organization, referred to as the botmaster. Although there are some rare examples of botnets that perform legitimate tasks, most botmasters have malicious objectives and deploy bots exclusively for criminal operations. Without the knowledge or consent of the owner, computers are recruited as a bot by malware infection and subsequently deployed in diverse criminal activities, such as DDoS (Distributed Denial of Service) attacks, spam, click fraud, theft of sensitive information, and even cyber terrorism In this work the word botnet refers exclusively to malicious botnets. The botmaster communicates with the bots in a special communication infrastructure, referred to as the C&C (Command and Control) Infrastructure. The botmaster [3] is separated from the attacking bots by intermediate computers or stepping stones that complicate the trace back from discovered bots towards the botmaster by the C&C communication. The trace back complexity is further increased when the stepping stones are distributed over several countries with different legislation Experts believe that approximately 16-25% of the computers connected to the Internet are members of botnets . One of the biggest recent distributed denial-of service (DDOS) assaults the Internet has ever witnessed against KrebsOnSecurity.com shows that the Internet of Things (IoT) is becoming a key target for attackers. The IoT botnet malware, dubbed 'Mirai', spreads to vulnerable connected devices by continuously scanning the Internet for easily hackable IoT systems protected by hard-coded passwords or factory defaults. It is difficult to accurately define a botnet . Although it is evident that a botnet is a set of bots, connected to a botmaster, this definition is not satisfactory without the definition of a bot. Communication plays an important role, but the sole ability of malware to connect to other malicious instances is not a sufficient condition to classify an infected computer as a bot. Modern malware is practically always a combination of different components for: infection, attack, concealment, adaption, and communication. Not only popular media, but even scientific literature, often refers to the same malware instances with different terms, such as: virus, root kit, backdoor, RAT, or trojan.

II. LITERATURE SURVEY

Most existing detection approaches in networks, it have limited results against botnet traffic that carefully imitates user originated visits to popular social websites, due to the close resemblance to legitimate traffic.

[1] **Sana Belguith** et al., proposed PAbAC, a novel privacy preserving Attribute-based framework, that combines attribute-based encryption and attribute-based signature mechanisms for securely sharing outsourced data via the public cloud. Our proposal is multifold. First, it ensures fine-grained cryptographic access control enforced at the data owner's side, while providing the desired expressiveness of the access control policies. Second, PAbAC preserves users' privacy, while hiding any identifying information used to satisfy the access control. Third, PAbAC is proven to be highly scalable and efficient


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This is to certify that Ms.S.Muruka Valliof M.A.M School of Engineering has presented a Paper titled Scalable and Secure Big Data IoT System Based on Multifactor Authentication and Lightweight Cryptography in the International Conference on Artificial Intelligence for IoT and Sustainable Electrical Networks (ICAIISEN'21) conducted by the SRM TRP Engineering College in association with IEEE SB, IIC, IETE and CSI on 29.04.2021.
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of MAM. SCHOOL OF ENGINEERING Presented a technical paper

entitled AN INTEGRATED STEP-UP INVERTER WITHOUT TRANSFORMER & LEAKAGE CURRENT FOR GRID-CONNECTED PHOTOVOLTAIC SYSTEM.

in the National Conference on **"Robotics & Automation Engineering - 2K20"** held at **Er. Perumal Manimekalai College of Engineering, Hosur on March 02nd 2k20.**

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Academic Year

2018-2019

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings

Academic Year 2018-2019

SL.NO	Name of the teacher	Name of books and chapters in edited volumes/books/conference papers	National / International	Year of publication
1	D.Saranya	International Conference On Innovative Engineering Initiatives (Iciei) 2019	International	2019
2	S.Nandhini Devi	International Conference On Innovative Engineering Initiatives (Iciei) 2019	International	2019
3	S.Nandhini Devi	International Conference On Innovative Engineering Initiatives (Iciei) 2019	International	2019
4	S. Murugavalli	International Conference On Innovative Engineering Initiatives (Iciei) 2019	International	2019
5	S.Murugavalli	International Conference On Innovative Engineering Initiatives (Iciei) 2019	International	2019
6	E.Priyanka	International Conference On Innovative Engineering Initiatives (Iciei) 2019	International	2019
7	G.Rajeshkumar	International Conference On Innovative Engineering Initiatives (Iciei) 2019	International	2019
8	M.Chandrasekar	International Conference on Innovative Engineering Initiatives	International	2019
9	K.Umarani	National Conference on Signal Processing and Communication Systems	National	2019
10	K.Umarani	National Conference on Signal Processing and Communication Systems	National	2019
11	P.Sudha	second national conference on signal processing and communication systems	National	2019
12	P.Sudha	second national conference on signal processing and communication systems	National	2019
13	Senthamarai Kannan A, Ranjithkumar M	Recent Trends in Electrical Engineering	National	2019

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14	Senthamarai Kannan A	International Conference on Innovative Engineering Initiatives (ICIEI)	International	2019
15	Senthamarai Kannan A	International Conference on Recent Innovations and Developments in Mechanical Engineering (ICRIDME 2K19)	International	2019
16	R.Ramanathan	International Conference on Veracity Research in Scientific Computation and Engineering Trends	International	2019
17	Dr.K. Chandrasekaran	National conference on research and recent trends in mechanical sciences	National	2019
18	S.Maniam Ramasamy	National Conference on Research & Recent Trends in Mechanical Sciences	National	2019
19	S.Maniam Ramasamy	National Conference on Research & Recent Trends in Mechanical Sciences	National	2019
20	R.Ramanathan	International Conference on Veracity Research in Scientific Computation and Engineering Trends	International	2019
21	R.Ramanathan	International Conference on Veracity Research in Scientific Computation and Engineering Trends	International	2019
22	R.Ramanathan	National Conference on Research & Recent Trends in Mechanical Sciences	National	2019
23	Dr.K. Chandrasekaran	National Conference on Advancements in Mechanical Manufacturing & Civil Engineering	National	2019
24	Dr.K. Chandrasekaran	National Conference on New Scientific Creationsl In Engineering and Technology	National	2019
25	Dr.K. Chandrasekaran	National Conference on New Scientific Creationsl In Engineering and Technology	National	2019
26	Dr.K. Chandrasekaran	International conference on Newer Engineering concepts& Technology-2k18	International	2019

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CODE TRACKER: A LIGHTWEIGHT APPROACH TO TRACK AND PROTECT AUTHORIZATION CODES IN SMS MESSAGES

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Abstract:
Smart phones are widely used in our daily life. Most of the peoples use smartphones for online transaction, bank transfer and other application. By increasing the websites and application the authorization code are delivered via smartphones. SMS Authorization codes plays important role in securing web accounts, social accounts, money transaction and so many. So we approach a Code Tracker method to secure and track the authorization code in SMS message. At first the authorization codes are identified and marked with taint tag. Then we modified the array structure, array operations and file operation for the secondary storage and make sure the taint tags are not removed. Then the authorization code has been processed in many location. It has been moved or copied to various locations. And then determined the correct place for pre-defined the SMS authorization code and make sure the codes are not stolen.

I.INTRODUCTION

Android is a mobile operating system developed by Google. It is based on a modified version of the Linux kernel and other open source software, and is designed primarily for touchscreen mobile devices such as smartphones and tablets. In addition, Google has further developed Android TV for televisions, Android Auto for cars, and Wear OS for wrist watches, each with a specialized user interface, **SMARTPHONES** are widely used in our daily life. Increasingly more users leverage smartphones for online transactions, bank transfers and other operations. Simultaneously, increasingly more websites and applications (apps for short) leverage codes delivered via SMS messages to authorize users. it may present security concerns On the other hand, SMS-stealing malware is emerging. A research report from the Qihoo 360 company revealed that 6:1% of mobile malware is stealing information. Among these information-stealing malware samples, 67:4% of them are targeting SMS messages. A research paper noted that among the 49 malware families, 27 of them are harvesting user information, including user accounts and short messages. To this end, there is an urgent need to protect the SMS authorization codes in smartphones .

II.INTERFACE

Android's default user interface is mainly based on direct manipulation, using touch inputs that loosely correspond to real-world actions, like swiping, tapping, pinching, and reverse pinching to manipulate on-screen objects, along with a virtual keyboard app icons launch the associated app, whereas widgets display live, auto-updating content, such as a weather forecast, the user's email inbox, or a news ticker on the home screen. information and possible app actions right from the notification.

BIG DATA ANALYSIS FOR FRAME WORK COLLECTIONS

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Abstract:

Most scientific data consists of analyzing huge amount of data collected from different resources. Hence, parallel algorithms and frameworks are the important which can process huge volumes of data and meeting the requirements of performance and scalability entailed in such scientific data analyses. In this paper, we proposed a concurrent VM reconfiguration mechanism for big data tool which is Map Reduce on virtualized big data environments. Our reconfiguration enhances the input data locality of a virtual Map Reduce cluster. It adds cores to VMs to run local tasks temporarily by scheduling tasks based on data locality, and adjust the computational capability of the virtual nodes to contain the scheduled tasks unlike the traditional schemes which can leads to user-friendly configuration methods for big data resources.The need for a reliable mapping mechanism decreases these risks to a minimum. In distributed systems, faults or failures are limited or part. Mapping is a significant issue in big data; it is concerned with all the techniques necessary to enable a system to endure software faults remaining in the system after its development. The main benefits of implementing mapping in big data include failure recovery, lower cost, improved performance etc. When multiple instances of an application are running on numerous machines and one of the servers goes down, there exists a fault and it is implemented by fault tolerance. So in this project we can mapping mechanisms using failure detectors based on check points. In real time distributed system feasibility of task is very important because there is a deadline defined for each task and should be ended on or before its deadline even there is a fault in the system. This project aims to provide a better accepting of fault, mapping and mapping techniques used in the distributed real time environments.

Keywords—Mapping,Mining,Attribute Selection

I. INTRODUCTION

Distributed Computing Systems consists of variety of hardware and software components. Failure of any of these components can lead to unanticipated, potentially disruptive behavior and to service availability.

Fault – Can be termed as “defect” at the lowest level of abstraction. It can lead to erroneous system state. Faults. may be classified as transient, intermittent or permanent.
They can be of following types:
1.Processor Faults (Node Faults): Processor faults occur when the processor behaves in an unexpected manner. It may be of classified into three kinds:

Fail-Stop – Here a processor can both be active and participate in distribute protocols or is totally failed and will never respond. In this case the neighboring processors can detect the failed processor.

Slowdown – Here a processor might run in degraded fashion or might totally fail.

Byzantine – Here a processor can fail, run in degraded fashion for some time or execute at normal speed but tries to fail the computation.

Network Faults (Link Faults): Network faults occur when (live and working) processors are prevented from communicating with each other. Link faults can cause new kinds of problems like:

One way Links – Here one processor can send messages to other is not able to receive messages. This kind of problem is similar to that faced due to processor slowdown.

Network Partition – Here a portion of network is completely isolated with the other.

Error – Undesirable system state that may lead to failure of the system

II. LITERATURE SURVEY

2.1 Mapping in Real Time Distributed System

A faulty system due to any reason during processing some task can causes some damages. A task running on real time distributed system should be feasible, reliable and scalable. The real time distributed system such as nuclear systems, robotics, air traffic control systems, grid etc. are highly dependable on deadline. A fault in real time distributed system can result a system into failure if not properly detected and recovered at time. These systems must function with high availability even under hardware and software faults. Fault-tolerance is the important technique used to maintain dependability in these systems. Hardware and software redundancy are well-known effective

TRUSTWORTHY IN THE DYNAMIC IOT CLOUD

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Abstract:

In this paper, we consider the issues of trustworthy computing for the dynamic IoT cloud. First, we introduce the vertical and horizontal computing structures in the extended IoT cloud where IoT devices, edge, fog, and cloud are integrated in a layered infrastructure. Then, we consider the issues and design a framework and accompanying mechanisms for performing trustworthy computing making use of the vertical IoT cloud structure to secure the IoT cloud in vertical and horizontal computation structures. Specifically, we discuss a general trustworthy computing pattern in the IoT cloud and use intrusion detection as an example to illustrate the idea, develop an advanced access control and policy definition model for highly dynamic IoT networks, and introduce an integrated data provenance and information control mechanism to assure the data integrity and secure the information flow for various computation patterns in the IoT cloud.

Keywords—edge computing ,fog computing, role based access control, attribute based access control, resource hierarchy, relative role model, data provenance, information flow control, IoT cloud infrastructure.

I. INTRODUCTION

. Wireless sensor networks (WSNs) comprise of a large number of small sensing and self- powered sensor nodes distributed in a geographical region. The sensor nodes gather communicate in a wireless fashion. Sensing, processing information or detect special events and node is said to be faulty if it is not functioning communication are three key tasks whose combination in one tiny device gives rise to a vast number of remote sensing applications. Although WSNs provide endless opportunities, at the same time pose formidable challenges. Some of these challenges are low battery, less computational capabilities and inefficient use of communication resources. Among these impediments, the most difficult one is the mysterious data sent by an unknown faulty sensor node either to the fusion centre (FC) such as base station (BS) or to the neighbouring sensor node . In WSNs, the accuracy of the observed data sent by a sensor node is important for the overall network's performance. Therefore, detection of faulty sensor nodes is an essential issue in WSNs .A sensor properly . In the literature, the faults in WSNs are broadly classified into two types known as hard fault (permanent or static fault) and soft fault (or dynamic fault) . The hard fault occurs if a sensor node fails to communicate with the rest of the sensor nodes in the network . When the sensor node is able to communicate with the other sensor nodes, but transmits erroneous message, then such type of fault is known as soft fault.

II. EXISTING SYSTEM

Open Flow provides an open protocol to program the flow table in different switches and routers. A network administrator can partition traffic into production and research flows of fault detection. Researchers can control their own flows - by choosing the routes their packets follow and the processing they receive. In this way, researchers can try new routing protocols, security models, addressing schemes, and even alternatives to IP. On the same network, the production traffic is isolated and processed in the same way as today. The data path of an Open Flow Switch consists of a Flow Table, and an action associated with each flow entry. The set of actions supported by an Open Flow Switch is extensible, but below we describe a minimum requirement for all switches. For high-performance and low-cost the data path must have a carefully prescribed degree of flexibility. This means forgoing the ability to specify arbitrary handling of each packet and seeking a more limited, but still useful, range of actions.

2.1 Disadvantages

* It needs to be aware of the specific technique supported in order to issue the corresponding commands.
* It is handled within each technology using its own mechanisms.

SECURE COMMUNICATION BY DATA ANALYSIS IN ONLINE TRANSACTIONS USING BIGDATA

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Abstract:

Cloud Computing has been envisioned as the next generation architecture of IT Enterprise security system in real time applications. In contrast to traditional solutions, where the IT services are under proper physical, logical and personnel controls, Cloud Computing moves the application software and databases to the large data centers, where the management of the data and services may not be fully trustworthy the sender and receiver should sharing the message with secure and timely manner This interface integrates all existing banks and provides business solutions for both retail and corporate. Multi-bank system. With cloud computing and storage, users are able to access and to share resources offered by cloud service providers at a lower marginal cost. With cloud computing and storage services, data is not only stored in the cloud, but routinely shared among a large number of users in a group. In this project, propose improve secrecy performance of relay networks without the direct link between the source and destination, a privacy-preserving auditing scheme for shared data with large groups in the cloud and utilize Merkle hash tree with signature to compute verification information on shared data, so that the File transfer is a generic term for the act of transmitting files over a Wi-Fi like the Internet. There are numerous ways and protocols to transfer files over a network. Computers which provide a file transfer service are often called file servers. Depending on the client's perspective the data transfer is called uploading or downloading. File transfer for the enterprise now increasingly is done with Managed file transfer is able to audit the correctness of shared data but cannot reveal the identity of the signer on each block. Finally proposed auditing scheme is to perform efficient public auditing to protect both identity and data privacy in cloud environments.

Keywords—security, message, sharing, IP address

I. INTRODUCTION

1.1 Cloud Computing

Cloud computing is a computing paradigm, where a large pool of systems is connected in private or public networks, to provide dynamically scalable infrastructure for application, data and file

storage. With the advent of this technology, the cost of computation, application hosting, content storage and delivery is reduced significantly. It is a practical approach to experience direct cost benefits, and it has the potential to transform a data center from a capital-intensive set up to a variable priced environment. The idea of cloud computing is based on a very fundamental principles of reusability of IT capabilities. The difference that cloud computing brings compared to traditional concepts of “grid computing”, “distributed computing”, “utility computing”, or “autonomic computing” is to broaden horizons across organizational boundaries. Forrester [1] defines cloud computing as: “A pool of abstracted, highly scalable, and managed compute infrastructure capable of hosting end customer applications and billed by consumption”. It is a technology that uses the internet and central remote servers to maintain data and applications and allows consumers and businesses to use applications without installation and access their personal files at any computer with internet access. This technology allows for much more efficient computing by centralizing data storage, processing and bandwidth. Cloud computing examples are Yahoo e-mail, Gmail, or Hotmail.

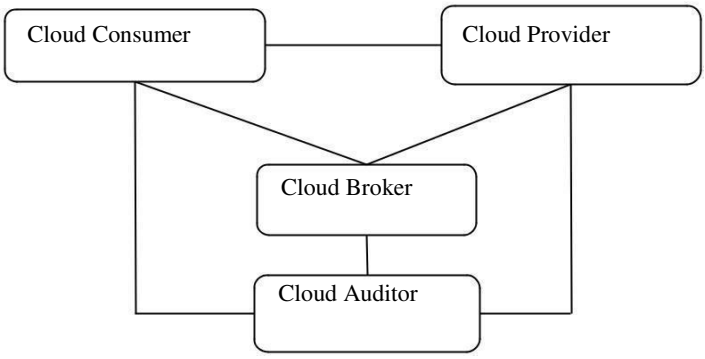

Figure 1.1 Architecture of cloud computing

LIVE MIGRATION OF VIRTUAL MACHINE FOR CLOUD DATA CENTER

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Abstract— Cloud computing is on demand service as it offers dynamic, flexible and efficient resource allocation for reliable and guaranteed services in pay-as-you-use manner to the customers. In Cloud computing multiple cloud users can request number of cloud services simultaneously, so there must be a provision that all resources are made available to requesting user in efficient manner to satisfy their need without compromising on the performance of the resources. Cloud computing has its era and become a new age technology that has got huge importance and potentials in enterprises and markets. Clouds can make it possible to access applications and associated data from anywhere, anytime. One of the major challenges in cloud computing is related to optimizing the resources being allocated. The other challenges of resource allocation are meeting customer demands, data center management and application requirements. Here the design, implementation, and evaluation of a resource management system for cloud computing services are presented. System multiplexes virtual to physical resources adaptively based on the changing demand. Skewness metric is used to combine Virtual Machines with different resource characteristics appropriately so that the capacities of servers are well utilized. This algorithm achieves both overload avoidance and green computing for systems with multi resource constraints. Then we can implement the deduplication method which is a method of reducing storage needs by eliminating redundant data. This model is scalable enough to represent systems composed of thousands of resources and it makes possible to represent both physical and virtual resources exploiting cloud specific concepts such as the infrastructure elasticity.

Keywords— Virtual Machine, Skewness ,Allocation .Dynamic

I. INTRODUCTION

Cloud computing is the use of computing resources (hardware and software) that are delivered as a service over a network (typically the Internet). The name comes from the use of a cloud-shaped symbol as an abstraction for the complex infrastructure it contains in system diagrams. Cloud computing entrusts remote services with a user's data, software and computation. There are many types of public cloud computing

Cloud computing relies on sharing of resources to achieve coherence and economies of scale similar to a utility (like the electricity grid) over a network. At the foundation of cloud computing is the broader concept of converged infrastructure and shared services.
Cloud computing providers offer their services according to three fundamental models: Infrastructure as a service (IaaS), platform as a service (PaaS), and software as a service (SaaS) where IaaS is the most basic and each higher model abstracts from the details of the lower

The thesis is organized as follows. The detailed discussion on various techniques on Cloud computing available in the literature related to the present research work is given in Chapter 1. Chapter 2 elaborates the module and the system architecture of phase

1. Work done in phase 2. elaborates the module and the system architecture are described in chapter 3. Implementation and results are described in chapter 4. Chapter 5 deals with the Screen shots of the system. Conclusion and future enhancement of the proposed approaches are described in Chapter 6. Conference and publication are explained in chapter.

II. EXISTING SYSTEM

2.1 Virtual resource allocation

Virtualization in cloud computing is a mechanism to abstract the hardware and the system resources from a

Efficient content delivery for Automated cloud Service – an Edge Data Models

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Abstract:

A Wireless communication system comprises of little estimated communication gadgets, which are outfitted with constrained battery power consuming and are adapted for remote exchanges. At the point when a WSN is sent in a sensing field, these sharing hubs will be in charge of sensing strange occasions or for gathered the sensed information of the world. On account of a communication hub distinguishing an irregular occasion or being set to occasionally report the sensed information, it will send the message jump by-bounce to an exceptional hub, called a sink hub. The sink hub will then illuminate the director through the Internet. In a WSN, communication hubs convey senser information once again to the sink through multi hopping. The communication hubs close to the sink will for the most part briefly on battery force than others; therefore, these hubs will rapidly empty out their battery validity and abbreviate the system lifetime of the WSN. A relocate sink is an modifying methodology for drawing out system lifetime by abstaining from staying at a certain area for a really long time which may hurt the lifetime of close-by communication hubs. In this paper, proposed an Energy-Aware Sink Relocation Method (EASR), which adopts the energy-aware way to finding MCP as the undergoing routing method for message relay. Experimentally analysis is given in this paper to display that EASR can extend the network lifetime of a WSN. Due to the battery resource constraint, it is a critical issue to save energy in wireless communication networks, commonly in large communication networks. One possible solution is to deploy multiple sink nodes simultaneously. In this paper, we propose a set of rules called MRMS (Multipath Routing in high scale communication networks with Multiple Sink nodes) which incorporates multiple sink nodes, a fresh path cost metric for improving path selection, altered cluster performance and way switching to improve energy efficiency and reliability . MRMS is shown to high the lifetime of communication elements substantially comparison to other algorithms based on a series of simulation experiments in communication in lifetime.

Keywords—Communication, Nodes, Networks, Ways.

I. INTRODUCTION

A wireless communication network (WSN) of spatially shared singles sensors to monitor physical or environmental conditions, such as temperature, sound, pressure, etc. and to cooperatively pass their data through the network to a main location area . The more current networks are bi-directional, also enabling control of communication activity. The development of wireless communication networks was motivated by military requirements such as battlefield surveillance; now a days such networks are used in many industrial and consumer applications, such as industrial process monitoring and controlling , machine health monitoring, and so on.

A wireless communication network (WSN) consists of thousands to lacks of low-power multi-functional communication nodes, operating in an unattended environment, and having sensing, computation and communication capabilities. The basic components of a nodes are a communication unit, an ADC (Analog to Digital Converter), a CPU (Central processing unit), a power unit and communication unit. Communication nodes are micro-electro-mechanical systems (MEMS) that produce a measurable response to a change in some physical condition like temperature and pressure. Communication nodes sense or measuring physical data of the area to be monitored. The current analog signal sensed by the sensors is digitized by an analog-to-digital converter and sent to controllers for further processing. Communication nodes are of very small size, consume extremely low energy, are operated in high volumetric densities, and can be autonomous and adaptive to the environment. The spatial density of communication nodes in the field may be as high as 20 nodes/m3.As wireless communication nodes are typically very small electronic devices, they can only be equipments with a controlled power source.

Each communication node has a certain area of coverage for which it can reliably and accurately report the particular quantity that it is observing. Several sources of power consumption in sensors are: (a) signal sampling and conversion of physical signals to electrical (b) signal conditioning, and (c) analog-to-digital conversion.

SMART PERSONAL SECURITY SYSTEM BASED ON FOOTWEAR USING MICROCONTROLLER

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Abstract:

Recently personal security has become a sensitive issue. Women's need to have their secure against harassments. Recent social incidents gave us motivation to develop personal security system. Women's mostly not able to fight against criminal for self-security. Today's world is full of rush and most of the women work independently to support their family. They have to work till late night. For such women, safety is the most important, so they have to come forward because of harassment. Best solution for those women is to carry a portable system using smart shoes. It will generate a shock to attack a lawbreaker, following that the message will be sent with the help of Global System for Mobile Communication (GSM) on the particular number with the location are stored of those women is traced with the help of Global Positioning System (GPS). If the message is not checked by the particular number mentioned, the system will continuously make a call until the message is checked.

Index term: GPS, GSM, smart shoes

I. INTRODUCTION

Women's work at different places like IT firms and so many places. After completion of their duty they have to go home late night so anything may happen at such timings as well as there is a chance of harassment at lonely places. For this purpose portable system is designed which can be easily carried with the women. Communication of alarming situation & prevention of incident has achieved by GPS, GSM technology and defensive system respectively. This is the aim of our system. As a result the design is separated into two parts. The message of the offense throughout wireless and prevention of the crime. Footwear is an irreplaceable part of human life across the globe.

In this shocking system with automation & alarm has been used. Pulse rate sensor, pressure & manual switches contribution has been considered for alarming, defensive situation and communication. The text message will be send to the added data based on people at destination for instant help to the user. User will have freedom to add or delete their need in disaster situation. University of Wisconsin-Madison engineering researchers Tom Krupenkin and J. Ashley Taylor have developed an in shoe system that harvests the energy generated by walking, but the energy is lost as heat, it claim up to 20 watts of electricity could be generated and stored in an incorporated rechargeable battery. It converts mechanical energy to electricity via a micro fluidic device. The process is said to have a power density of up to one kilowatt per square meter (10.76 sq. ft.), plus it works with a wide range of mechanical forces, and is able to output a wide range of currents and voltages. Throughout a conference proceedings. Margins, column widths, line spacing, and type styles are built-in; examples of the type styles are provided throughout this document and are identified in italic type, within parentheses, following the example. Some components, such as multi-leveled equations, graphics, and tables are not prescribed, although the various table text styles are provided. The formatter will need to create these components, incorporating the applicable criteria that follow.

A wireless sensor network (WSN) sometimes called a wireless sensor and actuator network (WSAN) are distributed autonomous sensors to monitor physical or environmental conditions as temperature, sound, pressure, etc. and to cooperatively pass their data through the network to a main location. The more modern networks are bi-directional, also enabling control of sensor activity. The development of wireless sensor networks was motivated by military applications such as battlefield surveillance; today such networks are used in many industrial and consumer applications, such as industrial process monitoring and control, machine health monitoring, and so on. Location-based services (LBS) are a general class of computer program- level services that use location data to control features. As such LBS is an information service and has a number of uses in social networking today as an entertainment service, which is accessible with mobile devices through the mobile network and which uses information on the geographical position of the mobile device. This has become more and more important with the expansion of the smart phone and tablet markets as well. LBS are used in a variety of contexts, such as health, indoor object search, entertainment, work, personal life, etc. LBS is critical to many businesses as well as government organizations to drive real insight from data tied to a specific location where activities take place.

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Title of the Paper : ONLINE SHOPPING USING SEMI AUTOMATED ROBOT IN SUPER MARKET

Author : M. CHANDRA SEKAR

M.A.M SCHOOL OF ENGINEERING

Prof. S. PALANIYAPPAN
Coordinator

Dr. M. PRABHAKAR
Organizing Secretary

Dr. S. MALIKRAJ
Convener

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Dr.S.Palanivel Rajan
Organizing Chair

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HoD/ECE

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This is to certify that ~~Dr./Mr./Ms./Mrs.~~ SUDHA. P of M.A.M SCHOOL OF ENGINEERING has presented a paper titled DYNAMIC SPECTRUM SHARING IN 5G WIRELESS USING QSM IN COGNITIVE RADIO NETWORK in Second National Conference on "Signal Processing and Communication Systems" Organized by the Research and Development Cell, Department of Electronics and Communication Engineering on 07th March 2019.

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Author : A. SENTHAMARAI KANNAN., ASSOCIATE PROFESSOR M.A.M.S.E

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has presented a paper on WEAR PROPERTIES ANALYSIS OF METAL MATRIX COMPOSITE FOR AIRCRAFT WING

in the **"International Conference on Veracity Research in Scientific Computation and Engineering Trends (ICVRSCET 2019)"** organized by **V.R.S. College of Engineering and Technology,** Arasur - 607 107, Villupuram District, Tamilnadu, India, on 23rd March, 2019.

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Department of Mechanical Engineering

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Mr./Ms. DY. K. CHANDRASEKARAN of M.A.M SCHOOL OF ENGINEERING has presented a Paper on the topic CHARACTERISTIC ANALYSIS OF HYBRID COMPOSITE FOR MARINE BLADES in the "National Conference on Research & Recent Trends in Mechanical Sciences" on 22nd March 2019.

Dr.P.Selvaraj	Prof.G.Haridoss	Dr.S.Rajasekaran	Mrs.Fathima Bathool Maluk
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Department of Mechanical Engineering

National Conference on Research & Recent Trends in Mechanical Sciences

NRRTMS - 19

Certificate Of Participation

Mr./Ms. S.MANIAM RAMASAMY of M.A.M. SCHOOL OF ENGINEERING has presented a Paper on the topic OPTIMIZATION AND ARREST VIBRATION OF MACHINE TOOL BEDS BY USING COMPOSITE MATERIALS in the "National Conference on Research & Recent Trends in Mechanical Sciences" on 22nd March 2019.

Dr.P.Selvaraj, Convener

Prof.G.Haridoss, Dean Academic

Dr.S.Rajasekaran, Dean Admin

Mrs.Fathima Bathool Maluk, Secretary & CEO - MASTeR G.I

MAMCET

M.A.M.COLLEGE OF ENGINEERING AND TECHNOLOGY

MASTeR

Siruganur, Trichy - 621 105.

In association with IEI - STUDENTS CHAPTER (621105/MCET/MC)

Department of Mechanical Engineering

National Conference on Research & Recent Trends in Mechanical Sciences

NRRTMS - 19

Certificate Of Participation

Mr./Ms. S. MANIAMRAMASAMY of M.A.M. SCHOOL OF ENGINEERING has presented a Paper on the topic DESIGN OF WIND TURBINE BLADE USING NFRP in the "National Conference on Research & Recent Trends in Mechanical Sciences" on 22nd March 2019.

Dr.P.Selvaraj	Prof.G.Haridoss	Dr.S.Rajasekaran	Mrs.Fathima Bathool Maluk
Convener	Dean Academic	Dean Admin	Secretary & CEO - MASTeR G.I

V.R.S.

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Arasur - 607 107, Villupuram District

V.R.S. College of Engg. & Tech. 25 1994 - 2019

ICVRSCET-2019

International Conference
on Veracity Research in Scientific Computation
and Engineering Trends

CERTIFICATE

This is to certify that

Dr./Mr./Ms. R.RAMANATHAN

of M.A.M. SCHOOL OF ENGINEERING

has presented a paper on CNC MILLING OPERATION OF AA6061 USING GRA TECHNIQUE

in the **"International Conference on Veracity Research in Scientific Computation and Engineering Trends (ICVRSCET 2019)"** organized by **V.R.S. College of Engineering and Technology,** Arasur - 607 107, Villupuram District, Tamilnadu, India, on 23rd March, 2019.

Dr.Gunasekaran Manogaran
International Chair

Dr.N.Anbazhaghan
General Chair

Tmt.Vijaya Muthuvannan
Patron

V.R.S.

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Arasur - 607 107, Villupuram District

ICVRSCET-2019

International Conference
on Veracity Research in Scientific Computation
and Engineering Trends

CERTIFICATE

This is to certify that

Dr./Mr./Ms. R. RAMANATHAN

of M.A.M. SCHOOL OF ENGINEERING

has presented a paper on ANALYSIS OF MACHINING PARAMETERS IN CNC MILLING OPERATION USING RSM

in the **"International Conference on Veracity Research in Scientific Computation and Engineering Trends (ICVRSCET 2019)"** organized by **V.R.S. College of Engineering and Technology,** Arasur - 607 107, Villupuram District, Tamilnadu, India, on 23rd March, 2019.

Dr.Gunasekaran Manogaran	Dr.N.Anbazhaghan	Tmt.Vijaya Muthuvannan
International Chair	**General Chair**	**Patron**

M.A.M.COLLEGE OF ENGINEERING AND TECHNOLOGY

Siruganur, Trichy - 621 105.

In association with IEI - STUDENTS CHAPTER (621105/MCET/MC)

Department of Mechanical Engineering

National Conference on Research & Recent Trends in Mechanical Sciences

NRRTMS - 19

Certificate Of Participation

Mr./Ms. R. RAMANATHAN of M.A.M. SCHOOL OF ENGINEERING has presented a Paper on the topic Experimental Analysis of Al. Alloy 6061 using various turning operations in lathe. in the "National Conference on Research & Recent Trends in Mechanical Sciences" on 22nd March 2019.

Dr.P.Selvaraj	Prof.G.Haridoss	Dr.S.Rajasekaran	Mrs.Fathima Bathool Maluk
Convener	Dean Academic	Dean Admin	Secretary & CEO - MASTeR G.I

Certificate

This is to certify that Mr/Ms./Mrs./Dr. K. CHANDRA SEKARAN M.E Ph.D

of M.A.M. SCHOOL OF ENGINEERING

participated / presented a paper on INVESTIGATION OF WEAR PROPERTIES OF AL 7075/BN COMPOSITE USING VORTEX TECHNIQUE

in the NATIONAL CONFERENCE ON ADVANCEMENTS IN MECHANICAL, MANUFACTURING & CIVIL ENGINEERING (NCAMMCE - 18) held on 9th March 2018.

Coordinator Convenor Principal

MAM Nurture Engineering Skills

NSCET/NC/2017-18/MECH/ 012

Nadar Saraswathi College of Engineering & Technology

TMHNU

Theni Melapettai Hindu Nadargal Uravinmurai

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An ISO 9001 : 2015 Certified Institution
Annanji(po), Vadapudupatti, Theni - 625 531.

National Conference on

NEW SCIENTIFIC CREATIONS IN ENGINEERING AND TECHNOLOGY

NSCET -2K18

CERTIFICATE

This is to certify that Mr./~~Mrs./Ms.~~/Dr. CHANDRASEKARAN.K.AP *of* M.A.M SCHOOL OF ENGINEERING *has participated / Presented a paper titled* MECHANICAL BEHAVIOUR OF SISAL/JUTE COIR REINFORCED POLYPROPYLENE RESIN COMPOSITES *in "National Conference on New Scientific Creations in Engineering and Technology" organized by the Department of Mechanical Engineering on 16th March 2018.*

Mr.M.Pradeep, M.E.,MISTE.,
Coordinator - Conference.

Mr.A.Boopathi, M.E.,MISTE.,
Convenor - Conference.

Mr.A.VembathuRajesh, M.E.,MISTE.,
HOD / MECH, NSCET.

Dr.C. Mathalai Sundaram, M.E., M.B.A., Ph.D., MISTE.,
Principal, NSCET.

Mr. K.S. Kasi Prabhu, B.Sc.,
Joint Secretary, NSCET.

NSCET/NC/2017-18/MECH/006

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Annanji(po), Vadapudupatti, Theni - 625 531.

National Conference on

NEW SCIENTIFIC CREATIONS IN ENGINEERING AND TECHNOLOGY

NSCET -2K18

CERTIFICATE

This is to certify that Mr./~~Mrs./Ms.~~/Dr. CHANDRASEKARAN.K

of M.A.M SCHOOL OF ENGINEERING *has participated / Presented a paper titled* INVESTIGATION OF DISSIMILAR MATERIAL TIG WELD FOR BOILER PANELS

in "National Conference on New Scientific Creations in Engineering and Technology" organized by the Department of Mechanical Engineering on 16th March 2018.

Mr.M.Pradeep, M.E.,MISTE.,
Coordinator - Conference.

Mr.A.Boopathi, M.E.,MISTE.,
Convenor - Conference.

Mr.A.VembathuRajesh, M.E.,MISTE.,
HOD / MECH, NSCET.

Dr.C. Mathalai Sundaram, M.E., M.B.A., Ph.D., MISTE.,
Principal, NSCET.

Mr. K.S. Kasi Prabhu, B.Sc.,
Joint Secretary, NSCET.

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Samayapuram, Tiruchirappalli – 621112.
www.krct.ac.in

INTERNATIONAL
CONFERENCE ON
NEWER ENGINEERING
CONCEPTS & TECHNOLOGY - 2K18

23rd & 24th March 2018

SUPPORTED BY

KR

Certificate
of Participation

This is to certify that

Prof./~~Dr./Mr./Mrs.~~ K. CHANDRASEKARAN

of M.A.M SCHOOL OF ENGINEERING

has participated / presented a paper on INFLUENCE OF ALUMINA ON LM24 ALLOY COMPOSITE UNDER DRY SLIDING CONDITION

in Two Days INTERNATIONAL CONFERENCE (ICONNECT2K18) organized at K. Ramakrisnhan College of Technology, Trichy on March 23rd & 24th 2018.

COORDINATOR

PRINCIPAL

	M.A.M. SCHOOL OF ENGINEERING	
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	Siruganur, Trichy -621 105.	www.mamse.in

Academic Year

2017-2018

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings

Academic Year 2017-2018

SL.NO	Name of the teacher	Name of books and chapters in edited volumes/books/conference papers	National / International	Year of publication
1	Dr.T.Ashok	International conference on Modern trends in Engineering & Research	International	2018
2	R.Ramanathan,	National Conference on New Scientific Creationsl In Engineering and Technology	National	2018

PRINCIPAL

PRINCIPAL
M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105

VINS CHRISTIAN
WOMEN'S COLLEGE OF ENGINEERING,

AB TECHNOLOGIES & TECH POWER SOLUTIONS JOINTLY ORGANIZING

INTERNATIONAL CONFERENCE ON
MODERN TRENDS IN ENGINEERING & RESEARCH

ICMTER-2018

DATE: 15th & 16th MARCH 2018.

Certificate

This is to certify that Mr. T. ASHOK from M.A.M. SCHOOL OF ENGINEERING has presented a paper entitled ESPYING THE QUALITY OF WATER & ALERTING THROUGH IoT in the International Conference on Modern trends in Engineering & Research (ICMTER-2018) Organized by Vins Christian Women's College of Engineering, Nagercoil during March 15 & 16, 2018.

Conference Chair
Dr. J. JEBA SONIA
Principal

Managing Director
K.S KAVIN
AB Technologies

Managing Director
A.CHANDRA SEKARAN
Tech Power Solutions

NSCET/NC/2017-18/MECH/026

Nadar Saraswathi College of Engineering & Technology

Theni Melapettai Hindu Nadargal Uravinmurai

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Annanji(po), Vadapudupatti, Theni - 625 531.

National Conference on

NEW SCIENTIFIC CREATIONS IN ENGINEERING AND TECHNOLOGY

NSCET -2K18

CERTIFICATE

This is to certify that Mr./~~Mrs./Ms./Dr.~~ R.RAMANATHAN ASSOC.PROF *of* M.A.M. SCHOOL OF ENGINEERING, TRICHY *has participated / Presented a paper titled* RAPID PROTOTYPE OF AN ANIMAL BONE REGENERATION USING 3D PRINTING TECHNOLOGY *in "National Conference on New Scientific Creations in Engineering and Technology" organized by the Department of Mechanical Engineering on 16th March 2018.*

Mr.M.Pradeep, M.E.,MISTE.
Coordinator - Conference.

Mr.A.Boopathi, M.E.,MISTE.
Convenor - Conference.

Mr.A.VembathuRajesh, M.E.,MISTE.
HOD / MECH, NSCET.

Dr.C. Mathalai Sundaram, M.E., M.B.A., Ph.D., MISTE.,
Principal, NSCET.

Mr. K.S. Kasi Prabhu, B.Sc.,
Joint Secretary, NSCET.

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	Siruganur, Trichy -621 105.	www.mamse.in

Academic Year

2016-2017

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings

Academic Year 2016-2017

SL.NO	Name of the teacher	Name of books and chapters in edited volumes/books/conference papers	National / International	Year of publication
1	Dr.K. Chandrasekaran, R.Ramanathan	International Conference on Recent advancements in Information Technology Science & Engineering.	International	2017
2	R.Ramanathan, Dr.K. Chandrasekaran	International Conference on Recent advancements in Information Technology Science & Engineering.	International	2017

PRINCIPAL

PRINCIPAL
M.A.M. SCHOOL OF ENGINEERING
SIRIGANUR, TIRUCHIRAPPALLI-621 105

CERTIFICATE

OF PRESENTATION

IFERP

connecting engineers... *developing* research

International Conference on Recent Advancements in Information Technology, Science & Engineering (ICRAITSE-17)

14th and 15th December 2017, Thoothukudi

This is to certify that **Ramanathan.R**

of M.A.M.School of Engineering presented his/her research paper titled *Study, overview and implementation of MEMS based Micro factory for sustainable manufacturing system in 2020* during the International Conference on "Recent Advancements in Information Technology, Science & Engineering (ICRAITSE-17)" held at A.P.C.Mahalaxmi College for Women, Thoothukudi on 14th and 15th December 2017.

Mr.Rudra Bhanu Satpathy
Director
IFERP

R. C. Vasuki
Dr.R.C.Vasuki
Principal
APCMCW, Thoothukudi

Prof.V.Shyamala Susan
HOD of CS Dept.
APCMCW, Thoothukudi

CERTIFICATE

OF PRESENTATION

IFERP

connecting engineers... *developing* research

International Conference on Recent Advancements in Information Technology, Science & Engineering (ICRAITSE-17)

14th and 15th December 2017, Thoothukudi

This is to certify that **Chandrasekaran.K**

of M.A.M.School of Engineering

paper titled *Study, overview and implementation of MEMS based Micro factory for sustainable manufacturing system in 2020* presented his/her research

"Recent Advancements in Information Technology, Science & Engineering (ICRAITSE-17)" held at A.P.C.Mahalaxmi College for Women, Thoothukudi on 14th and 15th December 2017.

Mr.Rudra Bhanu Satpathy
Director
IFERP

IFERP

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International Conference on Advancements in Information Technology, Science & Engineering (ICRAITSE-17)

14th and 15th December 2017, Thoothukudi

This is to certify that **K.Chandrasekaran** of M.A.M.School of Engineering presented his/her research paper titled *Fabrication and Optimization of MEMS based Micro Grinder* during the International Conference on "Recent Advancements in Information Technology, Science & Engineering (ICRAITSE-17)" held at A.P.C.Mahalaxmi College for Women, Thoothukudi on 14th and 15th December 2017.

Mr.Rudra Bhanu Satpathy
Director
IFERP

IFERP

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OF PRESENTATION

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International Conference on Recent Advancements in Information Technology, Science & Engineering (ICRAITSE-17)

14th and 15th December 2017, Thoothukudi

This is to certify that **R.Ramanathan**

of M.A.M.School of Engineering presented his/her research paper titled *Fabrication and Optimization of MEMS based Micro Grinder*

during the International Conference on "Recent Advancements in Information Technology, Science & Engineering (ICRAITSE-17)" held at A.P.C.Mahalaxmi College for Women, Thoothukudi on 14th and 15th December 2017.

Mr.Rudra Bhanu Satpathy
Director
IFERP

R. C. Vasuki
Dr.R.C.Vasuki
Principal
APCMCW, Thoothukudi

Prof.V.Shyamala Susan
HOD of CS Dept.
APCMCW, Thoothukudi