2021 International Conference on Simulation, Automation & Smart Manufacturing (SASM 2021)

Mathura, India
20 – 21 August 2021

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1st IEEE International Conference on "Simulation, Automation & Smart Manufacturing (SASM 2021)"

Session-1	Date: 20 August 2021	Time:14:30-16:30

Session Chair:Dr. Mayank Srivastav

Session Chair: Dr. Neeraj Kumar Pandey, DIT University, Dehradun

Rapporteur: Mr. Anas Islam (9568696934)

Track 1: Smart Computation

Zoom Meeting ID: 952 1178 1433, Pass code 123

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1	1	Govind Vashishtha	MOMEDA model based variational mode decomposition for Pelton wheel fault detection
2	7	Vinita Nishad, Vishal kumar and Poormina Mittal	LICENSE PLATE DETECTION BY EDGE DETECTION ALGORITHM AND SMART EXPOSITION WITH IOT
3	13	Rashmi Bharti	Frequency Analysis of Ring Oscillator at Different Technology Node
4	18	Aditya Saxena	Digital Image Steganography
5	N/A	Aditya Saxena	Real Estate House Price Prediction Using Machine Learning
6	23	Mridul Chaturvedi	A read stability enhanced, temperature tolerant 8T SRAM cell
7	28	Kanchan Sharma	Static Random-Access Memory using Twelve (12) Transistors Sleep Mode Circuit
8	N/A	Pankaj Kathayat	DESIGN AND ANALYSIS OF LEAF SPRING OF A HEAVY COMMERCIAL VEHICLE
9	N/A	Suyash Dixit	Measuring Effectiveness of Dimensionality Reduction Using PCA and Variance Threshold Method
10	32	Shubham Gupta	Design and Computational Analysis of the modified Exhaust System

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Session-2	Date: 20 August 2021	Time:14:30-16:30
Session Chair: Dr. Manish Gupta		
Session Chair: Dr. Aasheesh Shukla		
Rapporteur: Miss. Nira (8733829338)		
Track 2: Industrial Automation & Robotics		
Zoom Meeting ID: 971 7299 8735, Pass code 123		

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1	38	Akanksha Bansal	A Comprehensive Study on Facial Images
2	44	Rishabh Sharma /Dr. Pooja Pathak	A comparative study on different approaches of Sentimental Analysis
3	48	Aditi Saxena	Advancement of Industrial Automation In Integration with Robotics
4	N/A	Ankita Sharma	Fire-Fighting Robot-A Review
5	54	Saksham Bhatia / Nitin Kumar Waghmare	Design and Manufacturing Automated Guided E-Cart for Stock Relocation
6	59	Syed Shameem	FEM Based Modelling of Electronic chip cooling using Heat Sink
7	65	Mona Kumari / Ajitesh Kumar	A Secure Fog Computing Architecture for IoT Based Smart Manufacturing System

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Session-3	Date: 20 August 2021	Time:14:30-16:30

Session Chair: Dr. Kuldeep Kumar Saxena

Session Chair: Dr. Manoj Kumar Agrawal

Rapporteur: Ms. Reeya Agrawal (9837830201)

Track 3: Smart Manufacturing

Zoom Meeting ID: 948 9552 2584, Pass code 123

S.N.	Page #	Presenting Authors	Title of the Paper
1	N/A	Dr. R S Barot	Design of welding fixture for automated arc welding
2	N/A	Dr. Satendra Kumar Yadav	A Ten Year bibliometric analysis of Green Manufacturing from 2011 to 2020
3	N/A	Ajeet Sharma	Identification of security threats in E-Commerce system and use of AI for security
4	N/A	Bharat Singh	Ergonomic and Anthropometry Design Analysis of Welding Workshop
5	N/A	Mohammed Afzal	Optimization of Processing Parameters for Estimation of Tensile Properties of Glass Composites using Artificial Neural Network
6	N/A	Sahil	COMPUTATIONAL ANALYSIS AND DESIGN OF UNIVERSAL CNC MACHINE
7	N/A	Nikhil M Thoppil	An Integrated Learning Algorithm for Vibration Feature Selection and Remaining Useful life Estimation of Lathe Spindle Unit
8	70	Sathish Rao	An integrated approach of Taguchi - Grey Relational Analysis technique to optimize the drill process factors in the machining of Glass Fiber Centered Polymer Composite laminates

Session-4	Date: 20 August 2021	Time:14:30-16:30
Session Chair:Dr. Ankush Agrawal		
Session Chair: Dr. S. Cloudin, KCG College of Technology Chennai		
Rapporteur: Mr. Rajat Yadav (9897422710)		
Track 1: Smart Computation		
Zoom Meeting ID: 920 9719 9939, Pass code 123		

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1	78	Shabeeb Muhammad TP	Computational Investigations on Non-Circular Ducts Used for Large Scale Cooling Applications
2	84	shikha verma	Performance Analysis of Organic-p-type and n-type-Material based Thin Film Transistors.
3	N/A	A. Mohamed Thariq	PHARMACY MANAGEMENT SYSTEM BASED ON LOCATION AND RECOMMENDATION SERVICES
4	91	Archana	Modeling and Analysis of a High Gain and Low Noise Figure 90 nm CMOS LNA Using Noise Cancellation Technique
5	96	SUPRIYA JHA	TRAFFIC CONGESTION CONTROL SYSTEM BASED ON MICROCONTROLLER
6	101	NAVIN KUMAR AGRAWAL	SCALABLE MACHINE LEARNING FOR MUSHROOM DATASET CLASSIFICATION
7	N/A	Divya Singhal	Comparison of Machine Learning techniques based on their empirical implementation on Sentiment Analysis of Twitter data during Covid-19
8	105	RANJEETA Yadav	Review on FIR Filters Using Different Adders and Multipliers Based on Vedic Mathematics
9	110	Shrabana Saha	Identification of Coronavirus & Pneumonia from Chest X-ray Scans using Deep Multilayered CNN
10	115	Ritendra yadav	Design and simulation of vortex Bladeless an attachable fin that harvester energy using piezoelectric technology
11	N/A	Aastha Maheshwari	Enhanced RPL to Control Congestion in IoT: A review

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Session-5	Date: 20 August 2021	Time:17:00-18:30

Session Chair:Dr. Yogesh Gupta, BML Munjal University, Gurugram

Session Chair:Dr. Jose Anand, KCG College of Technology, Chennai

Rapporteur: Mr. Anas Islam (9568696934)

Track 1: Smart Computation

Zoom Meeting ID: 952 1178 1433, Pass code 123

S.N.	Page #	Presenting Authors	Title of the Paper
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2	121	Sanjay Ram	Application to Filter unwanted Messages from OSN user wallsApplication to Filter unwanted Messages from OSN user walls
3	126	Ishika Verma	Video To Braille Transcription For Visually Impaired People
4	129	Shobha Sharma	An Overview Of DPL, MVL ,Ternary Logic And CNTFET Technology For Contribution Of Efficient Circuits
5	136	Reeya Agrawal	Performance Analysis of Cache Memory Design for Single Bit Architecture for IoT Systems
6	140	MahaSri	MULTIPLE FACE DETECTION AND ATTENDANCE SYSTEM USING OPENCV
7	145	Syed Shameem	Design of Microfluidic Flow Sensor to Detect Cancer by Analyzing CEA Molecule Concentration in Blood Serum
8	N/A	Harish V	Password Manager with Multi-Factor Authentication
9	N/A	Upasana Singh	Environment Detection Methods using Speech Signals-A Review

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Session-6	Date: 20 August 2021	Time:17:00-18:30

Session Chair:Dr. Dipak Kumar, RKGIT Ghaziabad

Session Chair: Dr. Raj Kumar Sharma

Rapporteur: Mr. Rajat Yadav (9897422710)

Track 2: Industrial Automation & Robotics

Zoom Meeting ID: 971 7299 8735, Pass code 123

S.N.	Page #	Presenting Authors	Title of the Paper
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2	150	Himanshu Sharma/Hari Mohan Rai	Agri-Bot: IoT based Unmanned Smart vehicle for multiple agriculture operation
3	156	Arpita P Patel	A Comprehensive Survey on 6G Networks: Key Technologies and Challenges
4	162	Siddhartha Agarwal	A Digitalization Model Structure for Sustainable and Enhanced Profitability in Industry 4.0
5	N/A	Tushar Chaudhary	Design of a Robotic Arm equipped Fully Automated Burger Assembly Machine
6	N/A	Sandeep Kumar Sunori	H-infinity Loop Shaping based Controller Design for Blend Chest of Paper Mill

Session-7	Date: 20 August 2021	Time:17:00-18:30

Session Chair:Dr. R. S. Barot, BVM Engineering College, Gujrat

Session Chair: Dr. Mayank Agrawal, Awadh University Faizabad

Rapporteur: Mr. Hemant (8218604045) / Miss. Nira (8733829338)

Track 3: Smart Manufacturing

Zoom Meeting ID: 948 9552 2584, Pass code 123

S.N.	Page #	Presenting Authors	Title of the Paper
1	N/A	Himanshu Sharma	Image Captioning:Methods and Evaluation Metrics
2	168	Himanshu Sharma	Deep Learning based Image Captioning Models: A Critical Analysis
3	172	Prashant Udaychand Jain	Performance evaluation FinFET Based SRAM Cells at18nm Technology
4	N/A	Alok Bharadwaj	Role of Microorganisms in the Recovery of Metals from Solids
5	176	Subhasmita Jena	Implementation of CODAS MCDM Method for the Selection of Suitable Cutting Fluid
6	182	Vaishali Yadav	Design and analysis of FinFET based 10T SRAM Cell for low power applications
7	N/A	Aaryan Sheokand	8Ds Method of Problem Solving within Automotive Industry: Tools Used and Comparison with DMAIC

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Session-8	Date: 20 August 2021	Time:17:00-18:30
Session Chair:Dr. Sujit Kumar Verma		
Session Chair: Dr. Naveen Kumar Gupta		
Rapporteur: Ms. Aditi Saxena (7817879711)/ Krishnakant Dixit (7310570177)		
Track 4: Power and Energy Systems		
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2	N/A	Ram Naresh Mishra	Current Scenario of Electricity Deregulation in India and Challenging Issues
3	N/A	Ram Naresh Mishra	Impact of COVID-19 Pandemic on the Operation of Indian Electricity Sector
4	N/A	Subhash Chandra	Propitious Step for CO2 Mitigation in University Campus boosting Clean Development Mechanism
5	N/A	Indu Bhushan	A Brief Review on Islanding Detection Techniques in Integrated Distributed Generation System
6	N/A	Gaurav Vyas	Feasibility of Supercritical Hydrogen for cooling Superconducting Magnetic Energy Storage (SMES) Devices
7	189	Biranchi Narayan Patra	Design and Analysis of MPPT Charge Controller
8	N/A	Joel Jose/Daniel Sam Binu	process simulation of co-pyrolysis

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Session-9	Date: 21 August 2021	Time:11:00-13:00

Session Chair: Dr. S. Cloudin, KCG College of Technology, Chennai

Session Chair: Dr. Ashish Sharma

Rapporteur: Mr. Anas Islam (7988027144)

Track 1: Smart Computation

Zoom Meeting ID: 984 0506 8665, Pass code 123

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1	N/A	Suyash Batham	Evaluation of Deep Learning Techniques in Sentiment Analysis from Twitter Data
2	193	Monika Panwar	DIFFERENT CURRENT MIRROR TOPOLOGIES AT MULTIPLE TECHNOLOGY NODES: PERFORMANCE COMPARISON AND PARAMETERS EXTRACTION
3	200	Sandeep Srivastava	Impact and Potential of Block chain Applications Based on IoT
4	205	Muhammad Kalamuddin Ahamad	VALIDATION of CLUSTERING BASED FRAMEWORK using UNSUPERVISED MACHINE LEARNING
5	N/A	Deep R Patel	Conservation of plastic into articles by designing mold for Injection molding
6	N/A	Vijay Kumar	Condition Monitoring of Mechanical Systems: A state of the Art
7	N/A	Divyansh Dwivedi	Numerical Prediction of Safe Drop Height for Completely Filled Polycarbonate (PC) Water Bottle
8	N/A	D. Divya Sandeep Kumar/Navin Kumar Agrawal	A Study: Text Recognition on Various Languages based on Traditional and Emerging Technology
9	211	Shobha Sharma	Study of Making Efficient Circuits Using DG, TG ,GAA Technology
10	N/A	Ruchi Agrawal	A Comparison based Study of Various Clustering Algorithms in Data Mining

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Session-10	Date: 21 August 2021	Time:11:00-13:00
Session Chair:Dr. Manish Gupta		
Session Chair: Dr. Aasheesh Shukla		
Rapporteur: Mr. Rajat Yadav (9897422710)		
Track 2: Industrial Automation & Robotics		
Zoom Meeting ID: 926 4265 2930, Pass code 123		

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1	N/A	Sandeep Kumar Sunori	ANFIS based Controller Design for pH Neutralization Process of Sugar Refineries
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3	N/A	Shobhit Saraswat	A brief review of Amorphous Semiconductors
4	221	Arti Badhoutiya	AN INTELLEGENT TRAFFIC CONTROL PROTOTYPE FOR SMOOTH VEHICULAR FLOW BASED ON FX5U-32MT PLC
5	226	Arti Kumari	Design and Implementation of 12-bit Vedic Multiplier using Optimized Decoder-based Adder
6	N/A	Vibhor Singh Gautam	Design of Energy Efficient LVCMOS based Vending Machine and its Implementation on FPGA
7	N/A	Akash Sharma	A Framework of Reliability Centered Maintenance in a Smart Factory Industry 4.0

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Session-11	Date: 21 August 2021	Time:11:00-13:00
Session Chair:Dr. Kuldeep Kumar Saxena		
Session Chair: Dr. Bharat Singh		
Rapporteur: Ms. Reeya Agrawal (9837830201)		
Track 3: Smart Manufacturing		
Zoom Meeting ID: 948 0505 1915, Pass code 123		

S.N.	Page #	Presenting Authors	Title of the Paper
1	N/A	Rutuja K Shivdas	Reconfigurable Manufacturing System: A Case Study
2	N/A	Vikas Sharma	A Teaching Learning Based optimisation for parameters while Electric Discharge machining of Die Steel EN-31
3	231	Gurpreet S Matharou/Prakash Tiwari	Prototype of operating a vehicle using Arduino micro-controller with wireless communication system
4	N/A	Abhishek Singh	Application and Analysis of Predictive Maintenance in Industry 4.0: A review
5	N/A	Ashish Sharma/Amit Kumar Saraswat	Optimal profit analysis for growing items industry through inventory model with mortality and trade credit
6	N/A	Anjana Goel	Review on Green Manufacturing: A Futuristic approach
7	N/A	Touseef H Mintoo	Design and Application of Concrete bricks using Phase Change Materials
8	N/A	Deepak Sharma	Lead Time reduction in Pipe Manufacturing: An application of Value Stream Maps and 5 S

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Session-12	Date: 21 August 2021	Time:11:00-13:00

Session Chair:Dr. Sujit Kumar Verma

Session Chair: Dr. Subhash Chandra

Rapporteur: Ms. Aditi Saxena (7817879711)

Track 4: Power and Energy Systems

Zoom Meeting ID: 920 9370 9951, Pass code 123

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2	N/A	Sanket Raval	A review of charging station placement, strategies, and impacts of electric vehicles
3	237	Rahul Sinha/Sanjeev Kumar Gupta	Economic analysis of silt erosion in hydro turbine
4	N/A	Mridul Sharma	Effect of Varying Heat Flux Conditions on Performance of Receiver Tube of Parabolic Trough Solar Collector
5	243	Jeet Prakash Sharma	Evaluating Solar Flux-Temperature Distribution in the STCR Cavity- A SolTrace-CFD approach
6	249	Shobha Sharma	An insight into various techniques In CNTFET on Full adder and Gates for efficient outputs
7	N/A	Niketan	Hydrogen and Microalgae Biodiesel Fuel in IC Engine: A State of Art
8	255	Rupendra Kumar Pachauri	Cross-tied Interconnections of PV Strings to Diminish Shading Causes during Obscured Solar Environment Conditions: Experimental Study
9	N/A	Kuwar Mausam/Ravindra Pratap Singh	Influence of Nanoparticles in application of Solar collector based energy harvesting (SCBEH): A review

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Session-13	Date: 21 August 2021	Time:14:00-15:30

Session Chair: Dr. Jose Anand, KCG College of Technology, Chennai

Session Chair: Dr. Ankush Agrawal

Rapporteur: Jitendra Gudainiyan (8077389049) / Hemant (8218604045)

Track 1: Smart Computation

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2	N/A	Sugandha Satija	Movie Recommender System Using Tensorrec
3	N/A	Kuwar Mausam / Ravindra Pratap Singh	Imperative role of modelling and simulation in die design
4	N/A	Rahul Pradhan	Comparative Study on Real-Time Vehicle Classification
5	267	Prashant Kudesia	Nano Ballot Box: A Low Power, Thermal Resistant FPGA Based Electronic Voting Machine
6	273	Claudia Lois R	Effective Behavioural Analysis using Polystore Data Catalog and Intelligent Learning
7	278	Dr Mayank Srivastava	Driver Drowsiness Detection System with OpenCV & Keras
8	284	Saumya Tripathi Bajpai	Fake News propagation in the era of Covid-19-Tracing and combating fake news using Block chain Technology

Session-14	Date: 21 August 2021	Time:14:00-15:30

Session Chair: Dr. Nirmala, KCG College of Technology, Chennai

Session Chair: Dr. Yogesh Gupta, BML Munjal University, Gurugram

Rapporteur: Mr. Rajat Yadav (9897422710)

Track 1: Smart Computation

Zoom Meeting ID: 939 4351 2571, Pass code 123

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2	292	Md Mozammil Akhtar	Smart Home Energy Management System Under Dynamic pricing for developing countries using Particle Swarm Optimization
3	298	Rahul Pradhan	Comparative Study Of Methods Used For Diagnosis Of Diabetic Retinopathy Using Image Processing
4	306	Puviraj	A Study of Decentralised Database Network using the concepts of blockchain
5	311	Bhuvaneshvar Narayan	Movie Reviews Sentiment Analysis through Deep Learning
6	315	Purvansh Manoj Jain	Enhance Data Security In Cloud Computing With Digital Signature & Hybrid Cryptographic Algorithm
7	N/A	Anant Sain	machine learning for glaucoma diagnosis using fundus images
8	321	Dr. Dilip Kumar Sharma	A Framework for Automatic Fake Content Identification

Session-15	Date: 21 August 2021	Time:14:00-15:30

Session Chair: Dr. R. S. Barot, BVM Engineering College, Gujarat

Session Chair: Dr. Manoj Kumar Agrawal

Rapporteur: Ms. Reeya Agrawal (9837830201)

Track 3: Smart Manufacturing

Zoom Meeting ID: 957 5429 3924, Pass code 123

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1	N/A	Bharat Sanga	Optimization of Ultrasonic Spot Metal Welding Parameters in Dissimilar Metal Joints
2	N/A	Aneesya Panicker	Barriers in Adopting Green Manufacturing Practices by Indian SMEs: A Factor Analysis Approach
3	N/A	Praveen Kumar	Multi response optimization of ABS/PC blend filament using integrated Taguchi-Grey Relational Analysis
4	N/A	Sweta	5G Wireless communication Techniques and Security Issues: A Review
5	N/A	Soumyajit Das	Numerical Modelling of Al-Cu Dissimilar Joints Undergoing High-Power Ultrasonic Welding
6	N/A	Pragun Mandla	Simulation of Tensile behaviour of Carbon Fiber Reinforced Polymer Matrix Composite
7	N/A	Sunil Kumar	Application of Productivity Indices : A Comprehensive Case Study

Session-16	Date: 21 August 2021	Time:14:00-15:30

Session Chair:Dr. Mayank Srivastav

Session Chair: Dr. Neetu Faujdar

Rapporteur: Ms. Aditi Saxena (7817879711)/ Krishnakant Dixit (7310570177)

Track 1: Smart Computation

Zoom Meeting ID: 952 1178 1433, Pass code 123

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3	326	CH Nirupama	Automated Detection of Brain Tumor MRI Images using Deep Learning Techniques.
4	N/A	chelsea rk	Smart Trash and Dust Collection- Segregation Robot
5	332	pandiyan ss	A Translator for Indian Sign Boards to English using Tesseract and SEQ2SEQ Model
6	N/A	G muneeswari	Agent Based Queue Aware Scheduling for Distributed Multicore System
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