

Report on

National Conference

on

Innovation in Engineering & Technology

(NCIET -2020)

16 to 18th March 2020

In association with IEEE Student Chapter - AISSMSIOIT Pune



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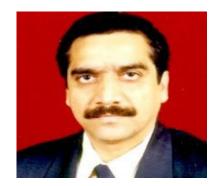
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Dr. M. A. Thalor, IT Engineering, AISSMS IOIT, Pune

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Track Coordinators -

E&TC Engineering			
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Mrs. Minal Zope	minal.zope@aissmsioit.org		
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Instrumentation Engin	neering		
Mrs. Amita Shinde	amita.shinde@aissmsioit.org		
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Mrs. K.S. Gadgil	krutuja.gadgil@aissmsioit.org		
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2. Mrs. Neha S. Patil, Computer Engineering.			
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Ms. P. D. Bormane (Computer Engineering)			
Ms. R. P. Saste (IT Engineering)			
Ms. V. V. Kale (Instrumentation Engineering)			
Mrs. Namrata Rao (Electrical Engineering)			
Certificate Committee :			

1. Mrs. D.S. Zingade, Computer Engineering.

2. Ms. Prajwal S. Gaikwad, Computer Engineering.

Aim of the Conference (NCIET – 2020):

To encourage the students / scholars/ Faculty members / Industry Experts in the preparation of better Technical Papers in the field of Engineering & Technology - Computer, Information Technology, Electrical, Electronics & Communication, Instrumentation, Interdisciplinary Engineering.

About the Conference:

NCIET- 2020 will feature invited talks, special sessions which will be offered by researchers and professionals working in academia, industry and research organizations. To imbibe research culture amongst under graduate students and to provide the students a platform to showcase their final year project work.

The conference has received **250 papers from all over India** and Reputed Colleges from Pune - PICT, VIT, VIIT, PCCOE, DYPCOE. The participation of all the presenters at NCIET 2020 has enrich their experience with good interactions with technical community.

This conference was benefited for the participants in achieving the goals of technical contributions at this global exposure.

Event Details:

Event Type	:	Research Paper Publications
Description	:	National Conference
Event Name	:	National Conference on Innovation in Engineering &
		Technology (NCIET -2020)
Venue	:	All India Shri Shivaji Memorial Society's Institute of
		Information Technology, Pune
Date	:	16^{th} to 18^{th} March 2020
Association	:	IEEE Student Chapter - AISSMSIOIT Pune

Call for the Papers:

Engineering & Technology Tracks:

Computer Engineering Information Technology, Electrical Engineering Electronics & Communication Engineering Instrumentation Engineering Interdisciplinary Engineering

Conference Session Chair:

Sr.No.	Session chair name	Designation	Company/Colle ge Name
1.	Dr.D.G.Bhalke	Professor & Head ENTC	AISSMSCOE
2.	Mr. Nitin Dawande	Associate Professor	D.Y.Patil ,Ambi
3.	Dr.Pallavi S.Deshpande	Assistant Professor	SAE Kondhava,Pune
4.	Dr.Sandeep Shinde	HOD	VIT, Pune
5.	Dr. Mrs. Apate	Elect.	AISSMSCOE
6.	Dr. Kamthe	BOS(IT)	PVG,COET
7.	Dr.S.A.Mahajan	BOS(IT)	PVG,COET,Pune
8.	Mr. Pasad Mandrupkar	Team Lead	Tech Mahindra, Pune
9.	Dr.U.S.Thakar	Assistant Professor	PVG,COET,Pune

Conference Eminent Persons from Academia, Industry and Utility:



The Papers were presented in National Conference - NCIET 2020 and are published in

- 1. ISSN Proceeding Book of International Engineering Research Journal (IERJ) www.ierjournal.org
- 2. Good Quality papers are Published in

Scopus Journal – Test Engineering and Measurement <u>https://www.scimagojr.com/journalsearch.php?g=12997&tip=sid&clean=0</u>

Web of Science Indexed Journal - International Journal of Future Generation Communication and Networking http://sersc.org/journals/index.php/ijfgcn

Paper Presentations:





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Poster Presentations:



Continuous Support and Advice:

Honorable Secretary AISSMS Shree Malojiraje Chhatrapati, Members National advisory committee all the reviewers, technical committee members, and session chairs. Shri Suresh Shindesaheb, Honorary Joint Secretary, Shri Ajay Patil, Treasurer, Advocate Bhagawanrao Salunkhe Chairman, Managing committee, AISSMS. General Chairs Dr. P. B. Mane, Principal AISSMSIOIT, all the Organizing Committee Members & IEEE Students Chapter – Volunteers, all the teaching & non teaching Faculty & Staff members of the institute.

Track wise Summary of Papers Received:

Pape r ID	Paper Title	Tracks
		Computer
2	Arduino based Battery Monitoring System	Engineering
		Computer
3	Music Genre Classification	Engineering
		Computer
4	Survey on anomaly based intrusion detection systems in IoT networks	Engineering
	Comparative Study of Different Machine Learning Techniques for Heart	Computer
5	Disease Prediction	Engineering
	Design and development of portable navigation aid for disabled person	Computer
6	using image processing	Engineering
	Entertainment suggestion for paralyzed and bed rest patient using EEG	Computer
7	Signals	Engineering
		Computer
8	Review of Object Sorting Machine Using IOT	Engineering
		Computer
9	Automated Universal Utensil Washer	Engineering

10	Urban Farming Using Supercaps	Computer Engineering
		Computer
11	Data Logger For Automatic Weather System Personality Traits Recognition for Interview Processes using Verbal and	Engineering Computer
13	Nonverbal Cues: Literature Survey	Engineering
	,	Computer
14	A Capsule Based Method To Analyse Constituents Of lot Traffic Data	Engineering
1 Г	Natural language to COL guery conversion	Computer
15	Natural language to SQL query conversion	Engineering Computer
18	Multimodal Biometric Identification using Feature Fusion	Engineering
	Detection of Autism Spectrum Disorder (ASD) using Machine Learning	Computer
19	Techniques: A Review	Engineering
	Motor Imagery based EEG Signal Classification using Electrode	Computer
20	Optimization Methodology	Engineering
21	Evaluation of ATM User Interfaces in India using Golden Rules of Interface	Computer
21	Design	Engineering Computer
22	Quality Inspection of Tire using Deep Learning based Computer Vision	Engineering
	Automatic Detection of Helmet and License plate recognition using CNN &	Computer
24	GAN	Engineering
		Computer
25	Smart Irrigation System	Engineering
		Computer
26	Design of single layer air core series reactor	Engineering
27	Conception Of Electricity Using Fact Stone	Computer
27	Generation Of Electricity Using Foot Steps	Engineering Computer
28	Smart Residential Complex	Engineering
20		Computer
29	ARC Series Rain Gauge Calibrator	Engineering
	Evaluation of Dense 3D Reconstruction from 2D Face Images in the wild :	Computer
30	An Overview	Engineering
		Computer
32	Smart Gas Safety System With Automatic Knob	Engineering
22	A Nevel size with fear DC voltage transformation using transformer	Computer
33	A Novel circuit for DC voltage transformation using transformer	Engineering Computer
34	Review of RFID technology in Inventory Management System	Engineering
5.		Computer
35	Sign to speech converter	Engineering
		Computer
36	Design and Development of Prototype For Milk Quality Analysis	Engineering
a –		Computer
37	Review On Structural Health Monitoring System For Bridges	Engineering

		Computor
38	IOT Based Circuit Breaker Monitoring And Control	Computer Engineering Computer
39	Improvising Label Accuracy for Unsupervised Machine Learning Models	Engineering
40	A survey on Information retrieval techniques and their performance measures	Computer Engineering Computer
41	Automation Of Car Washing System Using PLC And SCADA	Engineering Computer
42	Image and Text Based Carbot	Engineering Computer
43	A Review: Advances in Heat sink Cooling Systems	Engineering Computer
44	Flexible Power Electronics Transformer	Engineering
4 5	Intrusion Detection System using Soft Computing and Machine Learning	Computer
45	Algorithm	Engineering
46	A Sophisticated design of an UART for a μ C based embedded system application	Computer Engineering
40	Simulation & design of a μ C based system using VHDL / Modelsim codings	Computer
47	with FPGA concepts	Engineering
	Harmonic Monitoring and Design of Passive Filter for an Educational	Computer
48	Institute	Engineering
	Electronic measurement of different parameters using a user-friendly test	Computer
49	apparatus	Engineering
50	Control of stepper motor based on the high performance TMC-428 motion controller	Computer Engineering
50	Implementing a part-feeder system for a industrial robot doing some	Computer
51	robotic manipulation	Engineering
	Internet of Things (IoT) based home automation development for human	Computer
52	beings	Engineering
		Computer
53	Smart Farming Using Bidirectional Pumping	Engineering
54	Chest Disease Detection from X-rays using CNN	Computer Engineering
54	Subjective Question Answering System with Automatic Result Generation	Computer
55	using Natural Language Processing	Engineering
		Computer
56	Secured Identity System	Engineering
67	Contaxt Analysis Using Machine Learning Algerithms	Computer Engineering
57	Context Analysis Using Machine Learning Algorithms	Computer
58	Sentiment Analysis and Extracting User Opinions using Machine Learning	Engineering Computer
59	A Review Paper on Cloud Computing	Engineering Computer
60	Detection OF Fake Reviews Using Machine Learning Algorithms	Engineering

64		Computer
61	Rakshak - The Electric Pole Climbing Robot	Engineering
62	Micro controller based Power Factor Correction using Synchronous Motor	Computer Engineering
02	where controller based rower ractor correction using synchronous wotor	Computer
63	Deep Image Harmonization using Machine Learning	Engineering
64	Tourism mobile app with sentiment classification using ML	Electrical
65	E-Certificate Generation using Blockchain for P2P Network	Electrical
66	IOT Based Fuel Dispensing	Electrical
67	Sign Language Recognition using Convolution Neural Networks	Electrical
68	Multipurpose Agricultural Vehicle	Electrical
69	A Survey On Photonics Radar Technology	Electrical
70	Railway track fault detection robot	Electrical
71	Industrial SOS Band	Electrical
	Crowd Detection and Counting using Convolution Neural Network with	
72	Expression Detection.	Electrical
73	Automatic Rescue Device For Lift	Electrical
74	Solar Based Agro-Sprayer Robot for fertilizer	Electrical
75	Data transmission using crypto-steganography	Electrical
76	Generation of Melodious tunes using CNN and Genetic Algorithm	Electrical
77	Solar Based Advanced Agri-Robot	Electrical
78	Deep Image Harmonization using ML	Electrical
79	Iot Based Solar Panel Controlling And Monitoring	Electrical
	Diabetes Detection and Prediction System using Machine Learning	
80	Algorithms	Electrical
81	Hybrid Cooler	Electrical
83	Pid Control And Electrical Parameter Data Logging For Dc Motor.	Electrical
85	Personal Assistant Using Raspberry Pi	Electrical
87	Online Subjective Test Result Analysis	Electrical
88	Marathi Handwritten Word Recognition Using Deep Learning	Electrical
89	Railway Track Crack Detection	Electrical
90	Animal Health Monitoring System Using lot	Electrical
91	power theft monitoring on IOT platform using node MCU	Electrical
92	Resume parsing using NLP and Machine Learning Algorithms	Electrical
93	Vortex Bladeless Wind Turbine	Electrical
		Electronics and
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94	Prediction: Current Status and Future Prospects	ON Flaatus vies and
		Electronics and
05	Automatic Grid Healing System using Minimum Spanning Tree Algorithm	Telecommunicati
95	Automatic ond nealing system using Minimum spanning free Algorithm	on Electronics and
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96	surveillance unmanned ground vehicle	on
97	Automatic Detection of Epileptic Seizure	Electronics and
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		Telecommunicati on Electronics and
98	Laser Security with Video Surveillance	Telecommunicati on Electronics and
99	Face and number plate recognition for society security	Telecommunicati on Electronics and Telecommunicati
100	Fire Extinguisher System	on Electronics and Telecommunicati
101	Employee Attenuation Rate Prediction	on Electronics and Telecommunicati
102	Review of Antenna Positioning System	on Electronics and Telecommunicati
104	Automatic Pesticides Spraying Robot For Crops	on Electronics and Telecommunicati
105	AI infused assistance for Agile user story slicing	on Electronics and Telecommunicati
106	A Smart Bio-Metric Voting System	on Electronics and Telecommunicati
107	Identity Based Authentication Of Health Records Using Blockchain	on Electronics and Telecommunicati
108	3D virtual Dressing Room Application	on Electronics and
109	Portable device for Vitamin B12, Blood haemoglobin and Blood glucose detection	Telecommunicati on Electronics and
110	A Survey on Various Negotiation Techniques for Agent-Mediated Negotiation in e-Commerce	Telecommunicati on Electronics and
111	Eye Gesture Controlled Wheelchair using Sensor Goggles	Telecommunicati on Electronics and
112	Steganography and cryptography methods	Telecommunicati on Electronics and
113	Smart Classroom	Telecommunicati

		on
114	Model Predictive Control Technique for Test Response Prediction using reference signatures and Selective Test Pattern Generator in BIST design for reduction in Power Consumption	Electronics and Telecommunicati on Electronics and
115	Performance Analysis of LoPy4 LoRaWAN in Outdoor and Indoor Environment	Telecommunicati on Electronics and
117	Image and Audio Transmission through Laser	Telecommunicati on Electronics and Telecommunicati
120	Blind spot detection in Automobile	on Electronics and
121	Design of MPPT Fuzzy logic control for solar system and PI control as a charge controller	Telecommunicati on Electronics and Telecommunicati
122	Detection of Various Lung Diseases using Machine Learning	on Electronics and Telecommunicati
123	Disease prediction analysis using machine learning	on Electronics and Telecommunicati
124	Automatic grid healing system using minimum spanning tree algorithm	on Electronics and Telecommunicati
125	Development of Multi-Processor System on chip using Soft core: A Review	on Electronics and Telecommunicati
126	Smart Shopping Trolley	on Electronics and
129	Automatic Recognition of Student Engagement using Deep Learning and Facial Expression	Telecommunicati on Electronics and Telecommunicati
130	Video Analysis With Speech Modulation Using Neural Networks	on Electronics and
132	Light Net with Brightness and Color Temperature Control using Android phone	Telecommunicati on Electronics and Telecommunicati
134	Ingenious Watering System For Terrace Plantation	on Electronics and
135	Identification Cold start Problem Start in Matrix Factorization Method for Online Web Recommendation Systems	Telecommunicati on

136	Implementation On Recognize Obstructive Sleep Apnea By Using Region Growing Segmentation During Sleep	Electronics and Telecommunicati on
407		Electronics and Telecommunicati
137	Automatic Early Leaf Spot Disease Segmentation on Cotton Plant Leaf	on Electronics and Telecommunicati
138	Road Sense Analysis Using Ultrasonic Sensor	on Electronics and
139	Smart Water Management & Intelligent Farming	Telecommunicati on Electronics and
140	Development of Robotic Arm with 3 Degrees of Freedom for Interchanging of Tools in HMC Machine	Telecommunicati on Electronics and
141	Cross -Domain Relations using Disco-GAN: Combining Lifestyle And Fashion	Telecommunicati on Electronics and Telecommunicati
142	Depression Detection Using AI through Visual and Text Expressions	on Electronics and Telecommunicati
143	Fruit quality measurement and sorting using android based robot	on Electronics and Telecommunicati
144	Industrial SOS Band	on Electronics and Telecommunicati
145	Enabling Blockchain Based Energy Transfer Using Ethereum Blockchain	on Electronics and
146	Artificial Intelligence Based Recommendation System for Farmers	Telecommunicati on Electronics and
147	Tampered Video Detection	Telecommunicati on Electronics and
149	Fraud analytics System For Credit Card Using Machine Learning.	Telecommunicati on Electronics and
150	Smart E-Soldier For Military Application By using IOT	Telecommunicati on Electronics and Telecommunicati
151 152	Dynamic Traffic Light Optimization and Control System POLITICAL PREDICTION ANALYSIS USING TEXT MINING	on Electronics and

		Telecommunicati on Electronics and
153	High Dimensional Data Transmission using Hybrid Group Search Optimizer	Telecommunicati on Electronics and
154	Secured Electronic Voting Using Blockchain Technology	Telecommunicati on Electronics and Telecommunicati
156	Detection of Lung Cancer Disease using Machine Learning	on Electronics and Telecommunicati
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158	Design, Installation & power quality analysis of Solar Panel for Rooftop Application	Telecommunicati on Electronics and Telecommunicati
159	ERP Implementation: Issues & Challenges for Indian SME's	on Electronics and Telecommunicati
160	Data Monitoring Using IoT and Machine Leanring	on Electronics and
161	lot Based Automated Control System For Monitoring The Emission Levels Of The Individual Vehicles	Telecommunicati on Electronics and Telecommunicati
162	Survey Paper on Assistive Device for Blind	on Electronics and Telecommunicati
163	AUTOMATIC AIR FRESHENER USING SENSORS	on Electronics and Telecommunicati
164	Home Automation System With Smart Analytics	on Electronics and Telecommunicati
165	Cloud based recommendations service healthcare.	on Electronics and Telecommunicati
166	Design And Development Of Smart Wind Generator	on Electronics and Telecommunicati
167	Online Crime reporting system	on Electronics and
170	Advanced Proposal of Indian Cuisine Recipes Based on Ingredients	Telecommunicati

		on Electronics and
171	Efficient Garbage Management System	Telecommunicati on Electronics and
173	Enriching Spam Account Detection in Twitter	Telecommunicati on Electronics and
174	Secret Messaging Based on QR Code by Implementation of Visual Secret Sharing Scheme	Telecommunicati on Electronics and Telecommunicati
175	Vacuum Defense Shield	on Electronics and Telecommunicati
176	Smart Shopping Cart using RFID	on Electronics and
177	Smart Shopping Cart	Telecommunicati on Electronics and
178	Sentiment Analysis and Prediction in Social Media	Telecommunicati on Electronics and
179	Smart Irrigation in Agriculture Sector by Using PLC	Telecommunicati on Electronics and
180	Smart Shopping Cart Using RFID	Telecommunicati on Electronics and
181	Wavelet Neural Network based moving object tracking for Wireless Sensor Network	Telecommunicati on Electronics and
182	Braille Embosser	Telecommunicati on Electronics and Telecommunicati
183	Descriptive Answer Assessment System Using NLP	on Information
184	Fish Pond Management Using IoT	Technology
185	Electric Bike Design With Anti-theft System Using Fingerprint Recognition	Technology
186 187	IoT based Antenna Positioning System Vehicular Traffic Signal Control for Ambulance and Patient Health Monitoring Over Internet of Things (IOT)	Technology Information Technology
188	Smart Automated Wheelchair for Visually Impaired & Physically Disabled	Information

	People	Technology
	Renewable Energy Sources 'Solar Roadways' - The Smart Application Of	Information
189	Solar Energy Source	Technology
	67	Information
190	Leaf Disease Detection using Image Processing	Technology
150	Lear Discuse Detection using image rocessing	Information
101	Child Dovelopment Production Model Using Data Mining	
191	Child Development Prediction Model Using Data Mining	Technology
		Information
193	Implementation of Water Monitoring System using Zigbee	Technology
		Information
194	Cashew Nuts Sorting	Technology
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195	Enhanced App based Smart Navigation System for Visually Impaired	Technology
		Information
196	Underground Cable Fault Detection	Technology
		Information
197	lot Based Smart Safety Helmet	Technology
157	for Based Smart Surety Heimer	Information
100	Question generation from Images and Semantics checker	
198	Question generation from images and semantics checker	Technology
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199	Study Of Different Controllers In A Quadcopter	Technology
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200	Analysis of Aircraft Wings Actuation Mechanism Control System	Technology
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201	Solar Based Electric Fence	Technology
		Information
203	Smart Bore Well Rescue Robot	Technology
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206	JARVIS The Digital Assistant	Technology
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207	Crime Analysis and Prediction Using Machine Learning	Technology
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209	Location Based Encryption For Online Transactions	Technology
	A Survey on Various Negotiation Techniques for Agent-Mediated	Information
210	Negotiation in e-Commerce	Technology
	A Survey on Various Negotiation Techniques for Agent-Mediated	Information
211	Negotiation in e-Commerce	Technology
		Information
212	CFD in Hydraulic Modeling	Technology
		Information
213	GSM based speed control of a DC motor for conveyor system	Technology
		Information
216	Analysis on Web Personalization For the Efficiency Of Web Services	Technology
217	Automated backup for every-day task by AWS	Information
21/	Automateu backup ioi evely-uay task by Avvo	mormation

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- 218 Cognitive Radio Networks
- 219 Weed Removing Robot
- 220 Total Home Security Logic Based Rule Generation from a Trained Artificial Neural Network for
- 221 Input Data Reconstruction
- 222 Hydrogen Fuel Cell: A Best Energy Alternative For 21st Century
- 223 Smart Chair for Heart Disease Prediction
- 225 PLC Based Welding Transformer
- 226 Card-Less ATM Using Biometrics
- 228 Dual axis automatic solar tracking system
- 229 A Machine learning Powered Cyber Security System Payment For Paper Id 145, "Enabling Blockchain Based Energy Transfer
- 230 Using Ethereum Blockchain"
- 231 Feature Representation for Audio Classification using CNN Model
- 232 Smart Electricity consumption using LoRa Module
- 234 Environment monitoring system using low cost sensors
- 236 Design and fabricate 3D printer for PCB engraving and prototype design.
- 237 Hand Gestured Controlled Car (Prototype) ZigBee Based Weather Monitoring System for Air pollution and Rainfall
- 239 monitoring and establishing interrelation
- 240 Camera Ready Paper : Paper ID 145
- 241 BIG DATA & HEALTHCARE SYSTEM: A SURVEY
- 242 Validation of ECG Compression method through Classification Accuracy Compression of ECG Signals using Entropy Based Threshold in Wavelet
- 243 Subbands
- 246 PAPER ID 145 TRANSACTION ID 005711112816
- 247 Mobile Signal Jammer
- 248 HUMAN STRESS DETECTION USING EEG SIGNAL FASAL DISEASE DETECTION AND CLASSIFICATION USING DEEP LEARNING
- 249 TECHNIQUES
- 250 Receipt
- 251 Blockchain Based Soyabean Traceability In Agriculture Supply Chain
- 252 Air Quality Prediction and Monitoring
- 253 Smart Tank Water Monitoring System using IOT
- 254 Self Balancing Robot with Line following Capability

Information Technology Information Technology Information Technology Information Technology Instrumentation Instrumentation Instrumentation Instrumentation Instrumentation Instrumentation

Technology

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