

# AISSMS

INSTITUTE OF INFORMATION TECHNOLOGY







#### In Association with



&



#### **Our Partners**



Sr.No	INDEX	Page No.
	Our Heritage & About Institute	
	Best Wishes & Messages	
1	Conference Details	1
2	Concept of the Event	1
3	ESCI2020 Objectives	1
4	Call for papers	2
5	Conference Committee	3
6	Operating model of Event	15
7	Venue	17
8	Partners	18
9	Itinerary	24
10	Comprehensive Executive Summary	30
11	ESCI 2020 Paper Submission Statistics	55
12	Valedictory Function	61
13	Media Coverage	63
	Annexure-1 ESCI-Reviewer List	70
	Annexure-2 Track-wise Paper List	72
	Annexure-3 Broacher	95





The All India Shri Shivaji Memorial Society was established in 1917 as a broad based educational and social welfare organization by the erstwhile Royal house of Kolhapur, supported by the Royal House of Indore and Gwalior, with a benevolent mission of the welfare of their subject.

The foundation stone of the All India Shri Shivaji Memorial Society was laid at the hand of His Royal Highness, the Prince of Wales, on 19th November, 1921. The equestrian status of Chhatrapati Shivaji Maharaj was executed by the famous Indian Sculptor, Shri Nansaheb Karmarkar and was unveiled by his excellency Sir Leslie Wilson, Governor of Bombay on 16th June, 1928.

The original plan for the famous heritage building for Shri Shivaji Preparatory Military School was conceived by the Tata construction Co., later redesigned by Rao Bahadur Jagtap and the building was constructed by Rao Bahadur Thube. At the instance of the Chhatrapati Rajaram Maharaj of Kolhapur, the building was inspected by then Commander- in- Chief of the British Army of the India and declared fit to house a Military School. His excellency sir Frederick Sykes Governor of Bombay inaugurated the School on 23 September 1933.

The renowned Engineering Colleges, College of Pharmacy, Polytechnic, Institute of Management and College of Hotel Management and Catering Technology are under the ambit of the society. Through its various institutions AISSMS has provided the society with exemplary citizens. Some of the most decorated soldiers of the Indian Army have been the alumni of Shri Shivaji Preparatory Military School (SSPMS), the flagship institute of AISSMS. The students are persuaded to maintain strict discipline and regularity. State-of-art infrastructure, facilities of International standard, highly qualified and experienced faculty and dynamic and dynamic and comprehensive teaching learning process are some of the highlights of Institute of AISSMS.

#### **About Institute**

The All India Shri Shivaji Memorial Society's Institute of Information Technology was established in 1999, is a self financing Institution and is affiliated to the S. P. Pune University. It is approved by the AICTE, New Delhi and the Director of Technical Education, Government of Maharashtra. The institution is accredited by NAAC with A grade.

Our college runs Engineering Degree programs in the branches of Computer Engineering, Information Technology, Electronics and Telecommunication Engineering, Electrical Engineering and Instrumentation leading to the degree of B.E. of Savitribai Phule Pune University. We also have PG courses in Electrical and E&TC Departments and a Ph.D. Research Centre in E&TC.

## **Best Wishes Received for the**

## 2<sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics (ESCI)

## **From**



Hon'ble Shri. Uday Samant Minister of Higher and Technical Education Cabinet Minister for Education Government of Maharashtra, India



Dr. Anil Sahasrabudhe Chairman, All India Council for Technical Education (AICTE) New Delhi, India.

## **Message from Vice Chancellor**



## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ) गणेशखिंड, पुणे-४११००७, भारत.

#### Savitribai Phule Pune University

प्रा. नितीन र. करमळकर कुलगुरू (formerly University of Pune) Ganeshkhind, Pune-411007, India.

दूरध्वनी : (कार्यालय) ०२०-२५६९३८६८ Telephone : 020-25693868

Fax: 020-25693233
E-mail: puvc@unipune.ac.in

Prof. Nitin R. Karmalkar



#### **MESSAGE**

It gives me immense pleasure to know that 2<sup>nd</sup> IEEE International Conference on Emerging Smart Computing & Informatics (IEEE-ICESCI 2020) is hosted by All India Shri Shivaji Memorial Society's Institute of Information Technology (AISSMS IOIT), Pune, Maharashtra, India during 12-14 March 2020.

The vision of the University is to provide an academically conducive environment, to help create "Globally Competent Graduates" for rapidly changing responsibilities in academia, as well as the professional world and beyond. The University is committed to promote innovations, cultivate research and imbibe the principles of knowledge to wealth generation.

We are now in the era of globalization and therefore I believe that the participants should possess an ability to collaborate with teams of people from wide range of diversified backgrounds and countries with a 'human element'. This conference will promote multicultural learning agility among the participants.

I convey my best wishes to AISSMS IOIT and IEEE Pune Section for organizing this conference.

I wish all the success to the conference!

Prof. (Dr.) Nitin R. Karmalkar Vice-Chancellor

Ref. No.VC/76
Date: 24|02|2020

## **Message from President**



Shrimant Shahu Chhatrapati Maharaj

President

All India Shri Shivaji Memorial Society, Pune

It gives me an immense pleasure that AISSMS Institute of Information Technology, Pune has taken a leading role in organizing a 2nd IEEE International Conference on Emerging Smart Computing & Informatics (IEEE-ICESCI)" from 12th to 14th March 2020.

It is a need of hour to organize such conferences for exchange of views and ideas, so as to stimulate and provide cross disciplinary interest in all the areas of Engineering and Technology. I am sure this conference will fulfill its aim of providing exposure to researchers on futuristic applications in smart computing & informatics.

I take this opportunity to thank all the delegates for their enthusiastic participation in this conference. The success of the conference depends mainly on your dedicated participation at IEEE-ICESCI 2020.

All the best for IEEE-ICESCI 2020 and do carry a memorable experience with you.

## Message from Hon. Secretary



Shri Malojiraje Chhatrapati Hon. Secretary All India Shri Shivaji Memorial Society, Pune

It gives me an immense pleasure to welcome all research scholars, Faculty members, students and industry experts for 2<sup>nd</sup> IEEE International Conference on Emerging Smart Computing & Informatics (IEEE-ICESCI) at AISSMS Institute of Information Technology, Pune during 12<sup>th</sup>– 14<sup>th</sup> March 2020. All India Shri Shivaji Memorial Society was established in the year 1917 with the "vision of service to society through quality education". AISSM Society has successfully established multiple educational institutes in Pune city. Today AISSMS offers education from KG to Ph.D. AISSMS offers Engineering, Polytechnic, Management, Pharmacy, Hotel management through 20+ Institutions. AISSMS Institute of Information technology was established in 1999 with the aim for providing quality technical education in the growing horizon of technical revolution of 21st century.

I am sure that this Conference will strengthen the connectivity between researchers and end-users. I strongly feel that the support for international science and technology should be maintained and strengthened. The collaborative effort at the international front is a great initiative in exchange of views and ideas, so as to stimulate and provide best research interest in all areas of Engineering and Industries.

I would like to heartily appreciate all the staff members of AISSMS Institute of Information Technology, Pune for determination and their never-ending efforts for organizing IEEE-ICESCI2020.

I hope that the Conference will be a great source of value addition to all the participants. I express my best wishes to all.

## Message from Chair



Mr. Girish Khilari

Chair

IEEE Pune Section, Pune

It gives me immense pleasure to congratulate to All India Shri Shivaji Memorial Society's Institute of Information Technology (AISSMS IOIT), Pune for organizing 2nd IEEE International Conference on Emerging Smart Computing & Informatics (IEEE-ICESCI 2020) during 12-14 March 2020.

IEEE and IEEE Pune section is always devoted to advancing innovation and technological excellence for the benefit of humanity. Considering the Digital India Initiative started by Government of India, the use of technology is bound to increase in India. The Smart Computing, Communication and Internet of Things will be the tools to make India an economic super power in near future.

I congratulate all participants for their contribution and valuable research in the area of Smart Computing, Communication and Internet of Things. I hope that their research will help the mankind in every aspect of life. I am also confident that discussions among participants during this IEEE conference will help them to strengthen their ideas and explore new ideas.

I convey my best wishes to AISSMS IOIT for organizing this conference. I wish all the success to the conference

## Message from General Chair

On behalf of AISSMS's Institute of Information Technology, Pune and IEEE Pune Section, It gives us immense pleasure to welcome all invitees, delegates, academics, industrial professional and exhibitors from all over the globe who have congregate in Pune for 2<sup>nd</sup> IEEE International Conference on Emerging Smart Computing & Informatics (IEEE-ICESCI) Scheduled on 12-14 March 2020 at AISSMS IOIT Pune. This magnificent event has seen the light of the day due to the relentless contribution of the entire organizing committee. At the outset, we would like to heartily congratulate all of them for their stupendous efforts.

The conference has provided and nourished the memorable and impressive voyage of a blend of learning to practice and applying the knowledge and skills, relevant to engineering. Research is the ideal platform to provide an opportunity to innovate, explore and evolve.

We wish the conference a grand success and hope all participants will enjoy the technical program as well as the beautiful city- Pune.

We would like to express our sincere appreciation to members and volunteers of various committees and reviewers of IEEE-ICESCI 2020. The conference with such scale will not be possible without everyone's strong commitment, efforts and support from partners. Last but not the least, our sincere gratitude goes to all the authors and invited speakers, for their participation and providing the intellectual sharing on experiences.

We welcome you all for this memorable experience "IEEE-ICESCI 2020" and hope that you all will enjoy your stay in Pune. With best wishes,



**Dr. P. B. Mane**General Chair IEEE ICESCI-2020, Pune



**Dr. Rajesh Ingale**General Chair IEEE ICESCI-2020, Pune

## Message from Organizing Chair

It gives us immense pleasure to welcome all the Research scholars, Faculty members, & students for  $2^{nd}$  IEEE International Conference on Emerging Smart Computing & Informatics (IEEE- ICESCI) Scheduled on 12-14 March 2020 at AISSMS IOIT, Pune.

This conference will provide a platform for young scholars to know about the research potentials in the field of Smart computing and informatics. It is an opportunity to present research work by the Research scholars on an international platform, being provided here in Pune by IEEE Pune Section.

IEEE ICESCI-2020 will feature world class keynote talks, 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 a UG track has also been included in the conference to provide the students a platform to showcase their final year project work.

The conference has received overwhelming response with more than 400 research papers being submitted. It is a matter of delight to mention the overwhelming response of researchers towards paper submission. The participation of all the presenters at IEEE ICESCI 2020 will enrich their experience with good interactions with international technical community.

We sure that this conference will benefit the participants in achieving the goals of technical contributions at this global exposure.







**Prof. Mandar Khurjekar**Organizing Chair, IEEE ICESCI-2020, Pune

2 <sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics
ESCI-2020
Report

#### 1. EVENT DETAILS

**Event Type** : Research Consortium

**Description** : International Conference

**Event Name** : 2nd IEEE International Conference on Emerging Smart Computing

and Informatics(ESCI-2020)

Venue : The All India Shri Shivaji Memorial Society's

Institute of Information Technology, Pune

**Date** : 12-14 March 2020

#### 2. CONCEPTION OF THE EVENT

As a major aspect of the advancement, registering gradually began entering into all strolls of our lives beginning from social insurance, training, money, transportation, and so forth. This all made life straightforward and simple, and simultaneously there are some inborn difficulties too as for security, and practicality as we began grasping innovation more. So the inquiry presently is on what else should be possible to beat these difficulties without losing the advantages of what we are getting a charge out of today. The arrangement should be something basic, imaginative, incorporated and permit coordinated effort across different segments (equipment, programming, and system) to infer all the potential efficiencies. In general, the aim of any Savvy Registering innovation is to use the continuous information focuses and guarantee better expectations for what's to come Therefore, to prepare ourselves for this global competition, 2nd IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2020) was conceptualized.

#### 3. ESCI2020 Objectives

The IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2020) is the platform where academics and industry researchers present their latest algorithms, models and technologies and explore new trends and ideas on smart computing and informatics. The aim of this conference is to provide an allied platform for emerging trends in smart computing, networking, communication, signal and image processing, cyber security and IOT. The key intention is to provide opportunity for the global participants to share their ideas and experiences in person with their peers expected to join from different parts of the world. In addition to this, the gathering will help the delegates to establish research environment as well as to find the international linkage for future collaboration in their career path. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment.

#### 4. CALL FOR PAPERS

The conference proceeding invites academics and industry researchers for publication of papers explaining literature review, problem statement, methodologies with appropriate results. The selected papers will be sent to the experts for review. Acceptance will be based on significant and innovative content, originality and unpublished quality work. Accepted and presented papers will be published in IEEE Explore digital library. The Conference also invites special topics, tools and applications in multidisciplinary areas with workshops, tutorial sessions by expert academicians and professionals.

Highlights: To imbibe the research culture in undergraduate students, the conference invites the undergraduate students to publish original, innovative and quality research work. The accepted and presented papers will be published in conference proceeding.

The conference invites the papers in the following domains /tracks:

- Track1: Smart Computing
- Track2: Network and Communication
- Track 3: Image and Signal Processing
- Track 4: Cyber Security
- Track 5: IoT and Automation

#### Track I – Smart Computing

- Artificial Intelligence and Machine Learning;
- Data Mining and Text mining
- Big Data Analytics and Metrics
- Cloud Computing
- Mobile Computing;
- Natural Language Processing and Machine Translation;
- Parallel and Distributed Algorithms;
- Pattern Recognition and Analysis;
- Modeling Systems and Software Engineering;
- Ubiquitous and High-Performance Computing.

#### Track II -Network and Communication

- Cognitive Radio and Cognitive Networks;
- Communication Architecture;
- Control Systems and Applications
- Real-Time Networking;
- Optical Networks and Systems Protocols and Standards;
- Satellite and Space Communications;
- Smart Grid Systems and Intelligent Control,
- Smart Communication System Models.

#### Track III - Image and Signal Processing

- Image and Video processing
- Object recognition
- Speech processing
- Medical imaging

#### **Track IV – Cyber Security**

- Information, network and applications security
- Access control, web filters and firewalls
- Intrusion detection and incident response
- Vulnerability assessment and mitigating attack
- Social engineering and phishing attacks
- Information security management and governance.
- Software security and secure coding

#### Track IV - IoT and Automation

- Industrial Networks and Automation
- Cognitive Approach for Robotics
- Mobile Robots and Intelligent Autonomous Systems
- Human-Machine Interfaces

## INSTITUTE OF INFORMATION TECHNOLOGY

ADDING VALUE TO ENGINEE (Annexure A-Conference Brochure)

#### 5. CONFERENCE MANAGEMENT COMMITTEE

Conference Management Committee is the key for successful organization of any international level conference and ICDMAI-2020 conference is not exception to it. The primary role of the committee was to provide independent advice that will contribute to the quality enhancement of the conference regulatory decision-making and lend credibility to the review process. They also recommended/suggested changes and amendments towards the successful execution of the conference. ICDMAI-2020 was fortunate enough to get some of the renowned professors and researchers of the world, on the board. The details are asfollows:-

## **Chief Patron**



Shrimant Shahu Chhatrapati Maharaj

President



Shri Sambhaji Raje Chhatrapati



Shri Malojiraje Chhatrapati

Vice - President



Shri Ajay Uttamrao Patil

Treasurer



Shri Vishwas Bajirao Patil

Chairman, Governing Council

Honorary Joint Secretary

Shri Suresh Pratap Shinde



Adv Bhagwanrao Baburao Salunkhe

Chairman, Managing Committee



Mr. Dinanath Kholkar

Chairman, IEEE Pune Section

#### **General Chair**

#### 01 **Dr. P. B. Mane**



Dr. Pradeep B. Mane received his BE (E&Tc) and ME(E&Tc) degree from Government College of Engineering Pune, India and P.hD from Bharati vidyapith university. He worked in Philips India Itd. for three years, 15 years in Bharati vidyapith COE Pune and currently working as a principal in AISSMS's Institute of Information Technology, Pune. He was a member of the BOS for Electronics faculty in Bharati Vidyapith University. He has co-authored five books for engineering courses with Technova publications pune in the subjects of Radio and TV engineering and computer networks. He has published 50 papers in national, international conferences and seminars. He has 30 national and international journal publications. He is a regular reviewer for Springer wireless communications journal. His area of interest is wireless communication and networking. He is a fellow of IEEE, IETE and ISTE.

He worked as organizing chair Wiecon -ECE 2016 IEEE International WIE Conference on Electrical and Computer Engineering from 19-21 December 2016 in AISSMS Institute of Information Technology, Pune, session chair in International Conference on "Advances in Electronics, Communication and computer Technology (ICAECCT 2016)" organized by RSCOE Pune, session chair in International Conference on Data Engineering and Communication Technology (ICDECT-2016) organized by Aspire Research Foundation, Pune, session chair in International Conference on Transformations in Engineering Education organized by College of Engineering in association with Indo-US Collaboration for engineering education, session chair in IEEE International Conference on Information Processing (ICIP) organized by Vishwakarma Institute of Technology.

He has received several awards such as Best Principal of the year award by Computer Society of India, Mumbai Chapter, 2018 Bhartiya Vidya Bhavan National Award for Best Engineering College Principal by ISTE, New Delhi, 2017. Felicitated by Janseva Sahyog Community Center (MAH/2299/85, Trust F-3586) for contribution in teaching on 5th Sep 2013.

#### 02 Dr. Rajesh Ingale-



Rajesh Ingle is a Dean, and Professor, Department of Computer Engineering at Pune Institute of Computer Technology. He is also working as an Adjunct Professor at Department of Computer Engineering, Government College of Engineering Pune. He has also served as SENATE Member of Savitribai Phule Pune University and Head, EDC & Business Incubation Centre, Head of the CE department at PICT, Pune. He has also received 2014, IEEE outstanding branch counselor award from IEEE, USA. He is also recipient of 2019 IEEE Region 10 outstanding volunteer award in recognition of outstanding contribution and services to IEEE Pune Section and IEEE Region 10.

He has received Ph.D. Computer Science and engineering from Department of Computer Science and Engineering, Indian Institute of Technology Bombay, Powai, Mumbai. He has received the B.E. Computer Engineering from Pune Institute of Computer Technology, University of Pune, and M.E. Computer Engineering from Government College of Engineering, Savitribai Phule Pune University. He has also received M.S. Software Systems from BITS, Pilani, India, in 1994. He is a senior member of the IEEE, IEEE Communications Society, and IEEE Computer Society. He is working as Chairman, IEEE R10 (Asia Pacific) Student Activities Committee. He is also working as Vice Chair, IEEE India council, branch counselor of PICT IEEE Student branch, and President of PICT ALUMNI Association. He is also associated with Symbiosis University and other research centers. He has worked on and associated with various BOS's In IT and CSE in different universities including Pune University and Shivaji University. He has organized number of international conferences and meetings in various countries including Japan, USA, Hongkong, Malyasia, Netherland, Srilanka, Australia. He has guided more than 600 Projects at UG and PG level. Two students working with him completed PhD (Computer Engineering) and seven students are working with him for doctoral research. He has more than 30 research publications at various Conferences and Journals of national and international repute.

Advisory Committee			
01	Dr. Amar Buchade, Secretary, IEEE Pune Section		
02	Dr. D. M.Tagare, Ex-Chair, IEEE Pune Section		
03	Dr. D. J. Doke , Ex-Chair, IEEE Pune Section		
04	Dr. G. S. Mani, Ex-Chair, IEEE Pune Section		
05	Dr. P. K. Sinha, Ex-Chair, IEEE Pune Section		
06	Dr. Pratapsinh Kakaso Desai, President, ISTE		
07	Dr. B. B. Ahuja, Director, COEP, Pune		
08	Dr. J. W. Bakal, Chairman, IETE		
09	Dr. L. M. Waghmare, Dean, S&T, SRTMU, Nanded		
10	Dr. Rajashree Jain, Treasurer, IEEE Pune section		
11	Dr. Anil Tavildar, Chair, IEEE Pune section (SPC)		
12	Dr. Debajyoti Mukhopadhyay , Director , NHITM(Mumbai University)		
13	Dr. Neha Sharma, Chair, newsletter, IEEE Pune section		
14	Dr. D. S. Bormane, Chairman , BoS (E&TC) SPPU		
15	Dr. R. K. Kamat, Shivaji University Kolhapur		

2	2 <sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics		
16	Dr. S. R. Gengaje, Associate Dean,PAH Solapur University		
17	Dr. Abhay Bansod, Emerson, Pune		
18	Prof. Akshaya Nayak, IISc Bangalore		
19	Mr. T M Gunaraja		
20	Mr. Dilip Kumbhat		
21	Mr. Ravi Makanikar		
Technical Programme Committee			
01	Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section		
02	Dr.Ahmed Elngar,,Beny-Suef University, Egypt		
03	Dr. Osamah Ibrahim Khalaf, Baghdad, Iraq		
04	Dr. Ghaida Muttashar Abdulsahib, Iraq		
05	Dr. Swagtam Das, ISI, Kolkata		
06	Dr. Dr.Nazilla,Robert Gordon University, UK		
07	Dr. Chuan-Ming Liu, Taiwan		
08	Dr. Sheng-lung Peng, Taiwan		
09	Dr. Abdelrahman Alzoubaidi,Jordan		

2 <sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics			
10	Dr. Yogesh Hote, IIT,Roorkee		
11	Dr. K. Shridhar, Karnataka		
12	Dr. S. Neduncheliyan, Chennai		
13	Dr. R. K. Jha, Jammu		
14	Dr. P. Laxminarayana, Hyderabad		
15	Dr. Shayam Akashe, Gwalior		
16	Dr. M.S.Sutaone, COEP,Pune		
17	Dr. S.B.Somani, Chair, IEEE Pune section (CC)		
18	Dr. Bharat Chaudhary, MIT,Pune		
19	Dr. U. B. Shinde, Ex-Dean Dr.BAMU, Aurnagabad		
20	Dr. R. S. Holambe, Professor, SGGS E&T, Nanded		
21	Dr. Ulhas Shiurkar, Director, DIOE&MS, Aurangabad		
22	Dr. S. M. Jagade, Principal, STBCE, Tuljapur		
23	Dr. R. R. Deshmukh, Dr. BAMU, Aurangabad		
24	Mrs. Lekha Phijo, Chair, WIE Affinity, IEEE Pune Section		
25	Dr. Samudravijay, Mumabai		

2	2 <sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics			
26	Dr. S.P.Vijayaragavan, Kanchchipuram			
27	Dr. Varsha Patil , Chairman , BoS (Computer) SPPU			
28	Dr. Kavita Asnani, Goa			
29	Dr. Ganesh Sable, MIT, Auranagbad			
30	Dr.Nalini Chidambaram, Chennai			
31	Dr. Sidhharth Ladhhake, Amravati			
32	Dr. Shashank Joshi, Bharti Vidyapeeth, Pune			
33	Dr. Ajaykumar Jena , Bhubaneswar			
34	Dr. Manoj Ranjan Mishra, Bhubaneswar			
35	Dr. V. K. Bairagi, AISSM IOIT, Pune			
36	Dr. P.M. Patil, MIT, Pune			
37	Dr. M. A. Thalor, AISSMSOIT, Pune			
38	Dr. D. U. Shende, AISSMSOIT, Pune			

### **Organizing Chair**

01

Dr. Suresh Limkar, AISSMSOIT, Pune



02

Prof. Mandar Khurjekar, Chair, conference IEEE Pune section



03

Dr. Vivek Deshpande, Chair,Industry relation,IEEE Pune section



**TPC Chair** 

01

Dr. V. K. Bairagi AISSM IOIT, Pune



2 <sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics			
Finance Chair			
01	Dr. M.P.Sardey, AISSMSOIT, Pune		
Publicity Chair			
01	Dr. S.B.Dhonde, AISSMSOIT, Pune		
Publication Chair			
01	Dr. K. S. Wagh, AISSMSOIT, Pune		
02	Dr. Neha Sharma, Pune		
03	Prof. R. A. Jamadar, AISSMSOIT, Pune		

## $2^{\text{nd}}\,$ IEEE International Conference on Emerging Smart Computing and Informatics



04

Dr. Pramod Mushrif, AISSMSOIT, Pune



05

Dr. Sanjay Kurkute, AISSMSOIT, Pune



06

Prof. D. A. Itole, AISSMSOIT, Pune



2 <sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics		
Registration		
01	Dr. S. N. Zaware , AISSMSOIT, Pune	
	HAC Track Chair	
01	Prof. H. D. Shinde, AISSMSOIT, Pune	
02	Mr. Jagdish Chaudhari, Pune	

#### 6. OPERATING MODEL OF EVENT

The key intention of this conference is to provide opportunity for the global participants to share their ideas and experiences in person with their peers expected to join from different parts of the world. In addition to this, the gathering will help the delegates to establish research environment as well as to find the international linkage for future collaboration in their career path. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment. Arranging a conference in such large requires setting a goal with quantifiable metrics of success which makes it easier for team to ensure that you can reach them. The 10 point planning agenda was inked out for this mega event.

1	Developing Event Goal and Objectives
2	Building goal oriented Team
3	Establish Budget of event
4	Blue print of Event Master Plan
5	Setting the Dates
6	Venue Arrangement
7	Branding of Event
8	Partnerships & Sponsors
9	Blue print of Publicity Plan
10	Day-Of Processes & Post-Event Review

To make this event more inclusive and dynamic we decided to invites special topics, tools and applications in multidisciplinary areas with workshops, tutorial sessions by expert academicians and professionals. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment so to maintain the novelty it is decided to accept papers based on significant and innovative content, originality and unpublished quality work. The standard of this mega conference lifted high by deciding to publish the Accepted and presented papers in IEEE Explore digital library.

The track of conference truly stands by the name of conference and encompasses the emerging trends in every sector of technology. To accept the best and innovative papers the best team of reviewer is formed. Recognizing the value and importance of the peer reviewer in the overall publication process – not only in shaping the individual manuscript, but also in shaping the credibility and reputation of a conference. As such, the identification and selection of reviewers who have expertise and interest in the topics appropriate to each manuscript are essential elements in ensuring a timely, productive peer review process. Remembering this we invited the reviewers who are expert from academia, industry and research. A Call for Paper was released with deadline for paper submission, notification and registration. The great advantage of college location was the first choice to decide the venue of conference. The college campus is in the heart of the city. It is well connected with Airport, railway station and bus stand.

**Venue**- AISSMS Institute of Information Technology

Kennedy Road, Near R.T.O., Pune – 411 001, Maharashtra (INDIA).

An exclusive website (https://aissmsioit.org/esci2020/about-conference/about-conference/) of the conference was on action for every notification.

The following Social media link was created for wide publicity.

**Face-booklink**-https://www.facebook.com/Esci2020-IEEE-International-Conference-102679327769422/?modal=admin\_todo\_tour

Twitter Link:- https://twitter.com/esci2020

Website Template link-https://aissmsioit.org/esci2020/

To provide a hassle free interface to authors for paper submission, smooth paper review and unbiased paper selection process a ll the papers are accepted through Microsoft CMT platform. The Conference was enlisted on different meeting ready sites and synchronous email impact was done to contact the exploration network and give the wide exposure to this occasion.

Budget plan was readied and sponsorship leaflets were sent to imminent businesses and scholastic foundations. Thorough endeavors were taken to effort to instructive organizations, corporate, government and industry for help and support. A determined exertion was made to recognize the Keynote Speakers and Resource Persons for Invited Talks, specialists for Tutorials/Workshops, Chief Guests, Guest of Honor.

The deliberately created program timetable of various innovative sessions guaranteed it to be in excess of a simply one more routine Conference. Attendees got numerous experiences in the wake of tuning in to the assortment of research works which are being done over the globe. The members got a chance to tune in to numerous famous characters of the world, in their keynote, all-hands conferences and board conversation. Furthermore, the meeting displayed workshops and instructional exercises by pioneers from industry and the scholarly community. To add on, there was Best Paper Award in all the four tracks. At last, an official statement was given to brief the media and pursuers about the gathering, nations partaking, visitors, speakers, and nature of paper submitted and different features of the meeting.

#### 7. VENUE

#### **AISSMS Institute of Information Technology**

Kennedy Road, Near R.T.O., Pune – 411 001, Maharashtra (INDIA).

**Mobile:** +91 8496 045 045 **Tel:** +91 (020) 26057983, 26057636 **Fax:** +91 (020) 26058877

Email: principal@aissmsioit.org





#### 8. PARTNERS ESCI-2020

Associating with a mega event like ESCI conference is a big opportunity for business related to academia, industry, research and allied companies. ESCI was expecting participants from over 200 colleges from around the world. It is expected to have footfall of around 3000.

We gladly invited partners during this 2nd IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2020). We offered various benefits for our partner befitting their involvement. AISSMS's Institute of Information Technology acts as an interface between the companies and the next generation of innovators.

As sponsors they have given following benefits.

Benefits of Sponsorship

Sponsors accrue several benefits through this strategic investment:

- Enhancing the visibility and reputation of the sponsor within higher education.
- Interacting with key Information Systems researchers and academics who influence research directions.
- Gaining access to the people who influence thousands of future IS/IT practitioners and in so doing improving the sponsor's recruiting advantage.

ESCI-2020 benefits from a sponsor's support in several important ways:

- Conference fees for faculty and students are kept as low as possible, allowing more people to attend than might otherwise be possible.
- Partial support may be provided, as needed, to emerging researchers from developing countries
  as well as doctoral students from around the world, making it possible for these current and
  future faculty members to attend ESCI-2020 at a formative stage in their careers.

Support from sponsors is critical to enhancing the development of the Emerging Smart Computing and Informatics field.

We have strategically developed four levels of sponsorship such as-

Four levels of sponsorship: Platinum, Gold, Silver and Conference Contributor.

#### **Sponsorship Category I**

#### **Conference Contributor (INR 3000/-)**

- Three free corporate registrations
- · Recognition in the conference programs
- Recognition of the firm's representatives at the conferences, with the opportunity to meet and Interact with internationally recognized figures in the Emerging Smart Computing and Informatics field
- Logo on conference welcome banners.
- · Table space and 2 chairs

#### **Sponsorship Category II**

#### Silver Sponsor Opportunity (INR 25000/-)

- · Five free corporate registrations
- · Recognition in the conference programs
- · One quarter page advertisement in conference proceeding.
- Recognition of the firm's representatives at the conferences, with the opportunity to meet and

interact with internationally recognized figures in the Emerging Smart Computing and Informatics field

- Logo on conference welcome banners.
- · Gazebo / Stall size of 3\*5 with 1 table and 2 chairs

#### **Gold Sponsor Opportunity (INR 50000/-)**

- · Seven free corporate registrations
- · Recognition in the conference programs.
- · One half page advertisement in specific conference proceeding.
- Recognition of the firm's representatives at the conferences, with the opportunity to meet and interact with internationally recognized figures in the Emerging Smart Computing and Informatics field
- · Logo presence on certificate, proceeding and all backdrop banners.
- Gazebo / Stall size of 8\*8 with 1 table and 4 chairs.

#### Platinum Sponsor Opportunity (INR 100000/-)

- · Ten free corporate registrations.
- · One special demonstration display area.
- · One full-page advertisement in the conference proceeding inner side page (front/back covers).
- · Ability to distribute information in attendee registration packets.
- · Facility space that may be setup for labs/hands on workshops pre/post program.
- · Ability to submit articles of interest in the pre-conference e-mail to attendees.
- Sponsor webpage on conference website, content to be delivered by sponsor.
- · Co Sponsor for conference Banquet dinner.
- · Logos on all deliverable.
- · Slots for product launch during conference inauguration ceremony.
- Industry representatives (High authority) will share the dice along with dignitaries.
- Participant's data will be shared.
- Gazebo / Stall size of 8\*12 with 2 table and 8 chairs.
- · Electricity supply with fans and wi-fi facility.

Sr	Name of Company	Sponsorship category
No		
1	STPI	Gold
2	Vidyalankar GATE Classes	Silver
3	Keysight Technologies & Geekayasindisa	Silver
4	Aspire Knowledge skills	Silver
5	Integrated Sevices and Consultancy	Silver
6	Technical Publication	Conference Contributer
7	Techneo Publication	Conference Contributer
8	BITC2104/ LD ENGINEERING PUNE	Conference Contributer
9	Collegepond	Conference Contributer
10	Aspiring Minds	Conference Contributer
11	Veena Hind Overseas Education	Conference Contributer
12	Gradsmith ADDING VALUE TO ENGI	Conference Contributer
13	Kareer krafter india pvt ltd	Conference Contributer
14	EMURGO Academy	Conference Contributer
15	ZENTEK EXPORT ENGINEERING PVT LTD	Conference Contributer
16	OBEROI Overseas Education	Conference Contributer
17	PARK CENTRAL HOTELS	Conference Contributer
18	SANSOFT TECHNOLOGY PVT LTD	Conference Contributer
19	Travelog Immigration	Conference Contributer

## $2^{\mbox{\scriptsize nd}}$ IEEE International Conference on Emerging Smart Computing and Informatics

20	Jamboree Education Pvt Ltd	Conference Contributor
21	CTAB Education	Conference Contributor
22	Ethnus Banglor	Conference Contributor
23	Prygma Information Systems LLP	Confrence Contributer
24	Study smart	Conference Contributor
25	Salesforce	Conference Contributor
26	AMUL Icecream	Conference Contributor
27	Foliage Flowers & Nursery	Conference Contributor
28	LOGIPOOL INFITECH A IT GURUKUL	Conference Contributor
29	DISHA Computers	Conference Contributor
30	Electronics Study Center Nashik	Conference Contributor
31	TAACT Automation	Conference Contributor
32	Airobix Jaishree Corporation Pvt Ltd	Conference Contributor
33	XREME EQUIPMENT PVT LTD OF INFORMATIO	Conference Contributor
34	Off Cliff Adventures Ahmednagar	Conference Contributor
35	Perfect Skills	Conference Contributor
36	Gomati Engineer	Conference Contributor
37	HireMindz Signio GlobalTech Solution Pvt Ltd	Conference Contributer
38	Vani Classes	Conference Contributor
39	Tristar Biomedical Services	Conference Contributer
40	D Tours	Conference Contributor
41	Vaibhav Engineering	Conference Contributer
42	Tirupati Industries	Conference Contributer
43	Manosa Technologies Pvt Ltd	Conference Contributor
44	ІННІ	Conference Contributer

45	Microembedded Technology	Conference Contributor
46	Vintech Electronics System	Conference Contributor
47	Electronics Study Center Nashik	Conference Contributor
48	Vayu Electricals	Conference Contributer
49	Tinfosystem	Conference Contributor
50	GRIT ON ENGINEERING	Conference Contributor
51	SORT	Conference Contributor
52	Pristine Infosolutionss	Conference Contributor
53	Godrej	Conference Contributor
54	Durotech Industries	Conference Contributor



#### 9. ITINERARY

#### Pre Conference Tutorial Session Date: 11 March 2020, Wednesday

Time: 11.00 AM TO 2.00 PM | Venue: 305

Dr. Ajay Deshmukh

Former Principal ,Treasurer IAIAM Pune Topic:

**Embedded Computing** 

#### **DAY - 1 : 12 March 2020, Thursday**

### **INAUGURAL FUNCTION: 10.30 AM TO 11.30 AM Venue: Multipurpose Hall**

Time: 11.30 AM TO 1.00 PM | Venue: Multipurpose Hall **Keynote Talk-01** 

Speaker: Dr. Nagesh Rajopadhye

Associate Director, Accenture Services Private Limited, Pune

#### **LUNCH BREAK 1.00 PM-2.00PM**

Keynote Talk-02 | Time :2.00 PM to 3.00pm | Venue: Multipurpose Hall

Speaker: **Dr. Sanjay Kadam** Senior Director ,CDAC Pune

Topic: Computer Vision using Deep Learning FINFORMATION TECHNOLOGY

Technical Oral Presentation Session 1: Soft Computing -1

Session Chair: Dr. Amar Bucha Technical Oral Presentation Session 1: Soft Computing -1 Session Chair: Dr. Amar Buchade, Dr. Nuzhat Saikh

Time: 3.00 PM TO 5.00 PM | Venue: 210 Session Coordinator: Mrs. K. S. Gadgil

SI. No.	Paper ID	Title	
1	50	Predictive Technique Of Task Scheduling For Bigdata In Cloud	
2	122	Soft Computing Based Approaches For Classifying Diseases Using Medical Diagnosis Dataset	
3	7017	Ground Truth Mapping With Multi-Temporal Earth Observation Data In ESA Cloudtool Box: A Case Of Kerala Flood Event Occurred In 2018	
4	61	Development Of Scrum-Tree-Knn Algorithm For Distributed Agile Development	
5	35	Micro-content Shortlisting Using Interactive AI Method	
6	hК	One-class Classifier Ensemble based Enhanced Semisupervised Classification of Hyperspectral Remote Sensing Images	
7	105	NAD: Neuron Activation based Divergence Maps for Weakly Supervised Object Localization	
Tachnical Oral Procentation session 2 : Soft Computing 2 Session Chair: Dr. Noha Sharma, Dr. Sharmila Wagh			

Technical Oral Presentation session 2 : Soft Computing -2 Session Chair: Dr. Neha Sharma, Dr. Sharmila Wagh

Time: 3.00 PM TO 5.00 PM | Venue: 213 Session Coordinator: Mr. S.S. Shingare

SI. No.	Paper ID	Title
1	97	Intelligent Vehicle Road Surface Classifier System
2	100	Mechanisms for Source Code Obfuscation in C: Novel Techniques and Implementation
3	118	Fast Hartley Transform based Elliptic Curve Cryptography for resource constrained devices

4	259	Droop Based Dynamic Load Sharing Approach for Islanded Microgrid
5	252	A Review of Unstructured Data Analysis and Parsing Methods
6	257	Trustworthy Cloud Service Provider Selection using Genetic Algorithm based Decision Making Method
7	275	Hindi Poetry classification using Eager supervised Machine learning Algorithms

Technical Oral Presentation Session 3: Network & Communication

Time: 3.00 PM TO 5.00 PM | Venue: 206

Session Chair: Dr. M. S. Nagmode, Dr. S. L. Lahudkar

Session Coordinator: Mr. V. S. Kamble

SI. No.	Paper ID	Title
1.	67	Review of Reconfigurable Antennas for Future Wireless Communication
2.	209	Optimized Spectrum sensing Techniques for Enhanced Throughput In Cognitive Radio Network
3.	340	A Novel Method of Smart Communication using PSoC for Wireless Push System
4.	162	Performance Evaluation of Routing Protocols under Black Hole Attack in Cognitive Radio Mesh
5.	24	Timestamp based recommendation System with rating Prediction using (CSFE-PSGR) Technique
6.	125	Efficient Parallel Algorithm for Mapping LaGrange's Interpolation on OTIS and BSN Hyper Hexa Cell
7.	185	Gain Enhancement of Dual Feed U-Slot Wideband Circularly Polarized Antenna for S-Band
8.	68	A Review of Emerging Devices Beyond MOSFET for High Performance Computing
9.	91	FinFET Technology : As A Promising Alternatives for Conventional MOSFET Technology
10.	292	Balancing of a Rotating Shaft using Computed Order Tracking

**Technical Oral Presentation Session 4 : IoT And Automation Session Chair**: Dr. Sandeep Singh Sengar, Dr. Mandip Gandora **Session Coordinator:** Mrs. S. S. Landge

Sl. No.	Paper ID	ADDING VALUE TO ENGINEERING  SINCE 1917
1.	169	Green House based on IoT and AI for societal benefit
2.	182	Securing IoT Devices in Smart City Environments
3.	193	Automatic Irrigation System Based on Internet of Things for Crop Yield Prediction
4.	225	Robust Cross-Layer Security Framework For Internet of Things Enabled Wireless Sensor Networks
5.	239	Internet of Things and Social Media: A review of Literature and Validation from Twitter Analytics
6.	167	Data Reduction Based on Compression Technique for Big Data in IoT
7.	224	Optimizing Power Consumption for Solar Powered Rechargeable Lithium Ion (Li-ion) Battery Operated IoT
	231	Based Sensor Node Using WeMos D1 Mini

Tutorial Session Time: 3.00 PM TO 5.00 PM

	Dr. Akhil Gupta	
Tutorial 1	Lovely Professional University ,Phagwara,Punjab	
	Topic: Machine Learning for 5G	Venue:509
Tutorial 2	Dr. Sparsh Sharma, Assistant Professor, Computer Science & Engineering, Baba Jammu & Kashmir, India	
	Topic: Cyber Security and Etihical Hacking 5G Technology	Venue 505

Tutorial 3	Dr. Bali Arvind CEO, COO Advisor Director Business Operations P& L Management Start Up & SME Business Strategy Partnership & Alliances				
	Partnership & Alliances Topic: 5G Technology	Venue :Multipurpose Hall			
	Mr. Tomio Isogai				
Tutorial 4	Managing Directore Sharp India Ltd.				
Tutorial 4	Topic : Be Global Venue:112				

## POSTER PRESENTATION Time: 3.00 PM TO 5.00 PM | Venue: Ground Floor

Session Chair: Prof. M. J. Khurjekar , Dr. D. K. Kamat Session Coordinator: Mrs. Minal Zope, Mrs. H. D. Shinde, Mrs. V. K. Patil

# **DAY -2: 13 March 2020, Friday**

Keynote Talk -3 Time: 10.00 AM to 11.30 AM | Venue: Multipurpose Hall

# Dr. Akhil Gupta,

Assistant Professor

Lovely Professional University ,Phagwara, Punjab Topic:

Role of Machine Learning & AI in 5G

Tutorial Session 11.30 AM TO 1.30 PM

Tutorial 5	Mr. Omprakash Barure	
	Director BITC 2104 Pune Maharashatra India	
	Topic: Industrial Automation Venue: 213	
Tutorial 6	Mr. Nikhil Honmode	
	VP, Projects - Ascent Intellimation Pvt. Ltd, Pune	~ ///
INSTIT	Topic: Internet of Things ATTION TECHNOLOGY	4/4

**Technical Oral Presentation Session 5 :Image & Signal Processing Session Chair:** Dr. M. P. Dale, Dr. Mousami Munot **Time: 11.30 AM TO 1.30 PM | Venue: 210** Dr.Chanakya Kumar Jha

Session Coordinator: Mrs. Saba K. M. Shaikh

Sl. No.	Paper ID	Title
1.	20	Lung Cancer Analysis and Diagnosis by Coalition of Photo Metric and Quality Metric Parameters
2.	72	Predicting Breast Cancer using effective Classification with Decision Tree and K Means Clustering
3.	211	Automatic Suspicious Activity Detection in Surveillance Videos
4.	233	Detection of alcoholics using EEG and EMD Domain statistical features
5.	109	Comparative Analysis of FOD based Prewitt, Sobel & Laplacian Operators for Edge Detection on Freshwater fish images
6.	168	Hybrid image inpainting model using optimized DWT and Reproducing Kernel Hillbert Space for removal of damaged portions of old photographs
7.	1 / 4	Computationally efficient algorithm for spectral separation of narrow-band signals from multiple sources
Special Session -1		Socion Chair: Dr. Akhil Gunta, Dr. S. B. Mahajan

Special Session -1

**Session Chair:** Dr. Akhil Gupta, Dr. S. P. Mahajan

Session Title: Advances in Next Generation Internet and Communication Networks

**Session Coordinator**: Mrs. V. A. Yawale

Time: 11.30 AM TO 1.30 PM | Venue: 206

SI. No. Paper ID Title

1.	AG10	Performance enhancement analysis of FSO system using different amplification strategies
2.	AG11	Reception of weather signal using double cross antenna
3.	AG12	Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems
4.	AG2	Investigation of Interference Management Mechanism for D2D Communication in Licensed Band
5.	AG3	Higher Order QAM Schemes in 5G UFMC system
6.	AG4	Heart Disease Prediction Using Artificial Neural Network and Image Processing
7.	AG7	Capacity aware resource allocation in Millimeter wave micro urban communication network
8.	AG8	Prediction of Heart Disease Using NaÃ-ve bayes and Image Processing

### **LUNCH BREAK 1.30 PM-2.30PM**

Day 2 Tutorial Session Date :13 March 2020 Time : 2.30 PM TO 5.00PM

**Tutorial 7** 

Mr.Rizwan Shaikh Information Security Researcher and Cyber Crime Consultant Mr.Sanket Thodge Founder Entreprenuer Consultant Innovator Author Corporate Trainer Topic: Block Chain Technology Venue:605

Special Session -2 Session chair: Dr. Sandeep Singh Sengar, Dr. S. C.

Patil Session Title: Emerging trends in Machine Learning and its Applications Session Coordinator: Mr. P. P. Mahajan

Time: 2.30 PM TO 5.00 PM | Venue: 213

SI. No.	Paper ID	STITUTE OF INFORMATION TECHNICIOSY
1. Newson	SA1	Quantum-Dot Cellular Automata: An Efficient And Adroit Alternate To CMOS Technology
2.	SAS09	A Review On Security In Wireless Sensor Network
3.	SAS1	A REVIEW ON COMPUTATIONAL MODEL FOR BIPEDAL WALKING USING GAIT ANALYSIS
4.	SAS10	Multimodal Biometric Authentication System Using Deep Learning Method
5.	SAS12	Methodological Survey To Improve The Secure Data Storage In Cloud Computing
6.	SAS4	Waste Management Of Residential Society Using Machine Learning And lot Approach
7.		Performance Assessment Of DSDV And AODV Routing Protocols In Mobile Adhoc Networks With Focus On
		Node Density And Routing Overhead

**Special Session -3Session Chair:** Dr. Sparsh Sharma, Dr. Balwant Sonkamble Session Title:Recent Advancements of Artificial Intelligence in Computer Science Applications **Session Coordinator**:Mrs.Namrta Rao

Time: 2.30 PM TO 5.00 PM | Venue: 210

SI. No.	Paper ID	Title
1.	SS2	A Comprehensive review of Nature-inspired algorithms for Internet of Vehicles
2.	SS3	Character Recognition using Machine Learning and Deep Learning - A Survey
3.	SS6	Computer vision technique for neuro-image analysis in neurodegenerative diseases: A survey
4.	SS7	A CAD tool for breast cancer prediction using Naive Bayes classifier
5.	SS8	Human Recognition using Ear based Deep Learning Features

6.	RK1	IOT Based Women Security: A Contemplation
7.	RK2	An Introduction of CloudSim Simulation tool for Modelling and Scheduling
8.	RK3	A Technical Review Report on Cyber Crimes in India
9.	RK5	Comparison and Performance Evaluation of Software-Defined Networking Controllers

**Doctoral Consortium** Time: 2.30 PM TO 5.00 PM | Venue: 405

**Doctoral Consortium** Time: 2.30 PM TO 5.00 PM | Venue: 409

### **CULTURAL PROGRAM - 6.00PM TO 8.00PM**

**DINNER - 8.00PM** 

**DAY -3: 14 March 2020, Saturday** 

Keynote Talk: 04 | Time: 9.00 A TO 11.00 AM | Venue : Multipurpose Hall Mr. Manoj Kakde

**BITS, Pilani** 

**Topic: Internet of Things** 

Special Session: 4 Session Chair: Dr. A. Jayanthiladevi, Dr. D. R. Shende Session Title: **Intelligent Engineering Applications for Societal Development** Session Coordinator: Mrs. Deepali Yewale

Time: 11.00 AM -12.30 PM | Venue: 210

SI. No.	Paper ID	A I C C Nitle C
1	JD 14	Veh <mark>icle Naviga</mark> tion Protocol in Real-Time Fleet Management
2: लत्याला मरण		Healthcare Biometrics Security and Regulations: Biometric Data Security and RegulationGoverning  ADDING VALUE TO ENGINEERING
3	JD1	MACHINE LEARNING BASED Ddos DETECTION
4	JUZT	Variation Iteration Method to Deal with Time Delay Differential Equations under Uncertainty
5	JUT	Predicting students academic performance using an improved random forest classifier

Technical Oral Presentation Session-6

Session Chair: Dr. Shashank Joshi, Dr. Suhas Patil Time: 11.00 AM -12.30 PM | Venue:213 Session Coordinator: Mrs. S. N. Pownikar

SI. No.	Paper ID	Title
1	SL1	Nonlinear Model-Predictive Integrated Guidance and Control Scheme applied for Missile-on- Missile Interception
2	SL2	Water Demand Forecasting Using Machine Learning and Time Series Algorithms
3	SL3	Facial Emotion Verification by Infrared Image
4	133	Identifying The Usage Of Known Vulnerabilities Components Based On OWASP A9
5	342	LSTM-Based Electrical Load Forecasting for Chattogram City of Bangladesh
6	160	Dynamic Spectrum Sensing Method For Mobile Cognitive Radio Ad Hoc Networks

VALEDI	OTO DV	42 205		20004
VALEDI	CIORY	17 301	וי_ויאוי	スハレい

**LUNCH BREAK 1.30 PM-2.00PM** 

**PUNE TOUR 2.00PM TO 5.00PM** 



### **10. EXECUTIVE SUMMARY**

## **Inauguration Ceremony**



On behalf of All India Shri Shivaji Memorial Society's Institute of Information Technology, Ms. Mousami Vanjale took privilege to welcome all for the inaugural function of "The 2<sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2020", organized by AISSMS's IOIT and technically sponsored by IEEE Pune Section. For inauguration of this mega event We invited Padma Bhushan, Maharashtra Bhushan, Chancellor of Nalanda University, Dr. Vijay Bhatkar as the chief guest.

At the time of inauguration Honorary joint Secretary Mr. Suresh Shinde, Treasurer Mr.Ajay Patil, and Hon'ble Members Mr. Nikhil Kanse, Shri Bramhe and IEEE's Pune section president Mr.Girish Khilari, & principal Dr.P.B.mane were present.

It is our tradition to invoke Goddess Sarasvati at the beginning of every auspicious occasion to seek her blessings. This function started with Sarasvati vandana, all the dignitaries on dais proceeded for lighting of lamp. As a token of appreciation, we would like to felicitate the chief guest and all the dignitaries.

As a token of appreciation felicitation of the chief guest and all the dignitaries done. Shinde Sir, Honorary Joint Secretary, AISSMS, to felicitated Chief Guest, Dr. Vijay Bhatkar and Mr. Girish Khillari, President,

IEEE Pune section. Shri Ajay Patil, Treasurer, AISSMS felicitated Dr. Rajesh Ingale, General chair of the conference and chair, IEEE Pune Section. Shri. Bhagwanrao Salunkhe, Chairman, Managing Committee, AISSMS felicitated Shri. Mandar Khurjekar, Chair, Conference IEEE Pune Section. Principal Dr. P. B. Mane felicitated Shri Suresh Shinde sir, Joint Secretary, AISSMS, Shri Ajay Patil, Treasurer, AISSMS & Shri. Bhagwanrao Salunkhe, Chairman, Managing Committee, AISSMS.

AISSMS IOIT took opportunity to felicitate Gold, Silver sponsors and contributors of the conference. Dr. P. B. Mane felicitated the gold sponsor for the conference Mr. Sanjay Srivas, Deputy Director, Software Technology Parks of India, Ministry of Electronics and Information Technology, Govt. of India, Mr. Rangnath Kumar, Keysight Technologies, the silver sponsor for the conference, conference contributors - Mr. Paresh More, Travelog Immigration. We also extended our sincere thanks to International Cell of Savitribai Phule Pune University for providing support to the conference.

Moving further General Chair of the conference and Principal, AISSMS IOIT, Dr. P. B. Mane presented the introductory speech.

In his speech he highlighted the reasons for organizing the conference and threw light on the proceedings of the conference he said that upcoming engineers should take the benefit of such conferences to encourage knowledge sharing and be enlightened about innovative ideas. When the father of super computer is actually on the stage everybody was eager to hear his words of wisdom, knowledge and experience. Dr. Vijay Bhatkar during his speech said that International Conferences such as these not only provide platforms for innovation and research but also encourages the meeting of students with academician and industry persons. He added that-"The topic of conference covers the most recent topics, information word refers to languages and computing refers to mathematics so most of the innovation is going in the way of "the science of languages", students must attend these type of conferences to listen to what experts from industry, academician, and research are talking, presenting this will immensely help them to gain knowledge He congratulated AISSMS for organizing such a wonderful conference and wished the best for it.

Shri Suresh Shinde, Honorary Joint Secretary AISSM Society, addressed the gathering by inspiring words, he said "Students should take an interest in research and innovation to fight against challenges society is facing nowadays."

IEEE's Pune section president Mr.Girish Khilari briefed the gathering by highlighting the achievement of IEEE Pune section in various activities.

Then Publication of conference proceeding by Dr. Viajy Bhatkar and other dignitaries present on the Dias.

Shri Malojiraje Chhatrapati, Secretary AISSM Society sent his well wishing message for guest and participants on behalf of AISSMS society and wished for the grand success of the conference.

\*\*\* The distinguished guest Dr. E. Balagurusamy, IEEE Distinguished Lecturer Kohen Israel and the esteemed keynote speakers of the conference — Andino could not make is possible to attend the conference due to safety reasons on account of Corona Virus infection. One of the keynote speakers, Prof. Chuan-Ming Liu, Prof. in Dept. of Computer science, at National Taipei University of Technology has

conveyed his video message for the conference.Dr. Suresh Limkar, organizing chair, ESCI 2020 to expressed vote of thanks.

(The inauguration ceremony begun at 10:00 AM as per the schedule and the agenda for the programme was as given below: )

TIME	Min(s)	DETAILS
08.00 am – 10.00 am	120	Registration
10:00 am – 10:05 am	05	Lightning the Lamp
10:05 am – 10:10 am	05	Welcome Speech
10:10 am – 10:15 am	05	Felicitation of all Guests
10:15 am – 10:20 am	05	Introductory Speech by Dr. P.B.Mane
10:20 am –10:25 am	05	Welcome Speech by Mr. GirishKhilari, President IEEE Pune Section
10:25 am –10:45 am	20	Address by Chief Guest Dr. Vijay Bhatkar
10:45 am – 11:00am	05	Vote of Thanks by Dr. Suresh Limkar





Felicitation of Padma Bhushan Dr. Vijay Bhatkar by Hon.Joint secretory shri.Suresh Shinde at ESCI 2020



Dr. Vijay Bhatkar addressing the gathering.



Publication of conference proceeding by Dr. Viajy Bhatkar and other dignitaries present on the Dias.

Snapshots @ESCI-2020



**Report on keynote and Tutorial session** 

Day 01:

Total 4 keynote talks, 1 preconference tutorial and 4 tutorial sessions were organised in the conference. Inauguration ceremony was followed by the keynote session which had 02 Keynote Talks, This session was chaired by Mrs. A. D. Shiralkar, Head, Electrical Engineering Department who introduced Keynote Speakers -Dr. Nagesh Rajopadhye, Associate Director, Accenture, global multinational IT and consulting company, Pune and a Dr. Sanjay Kadam, Senior Director, C-DAC, Pune.



First Keynote session delivered by Dr. Nagesh Rajophadhye, Associate Director, Accenture, Pune

### on 12/03/2020 at ESCI 2020

First keynote session was delivered by Dr. Nagesh. His talk was on topic "How to Innovate in Smart Computing". He spoke about innovation in signal, image and data processing and smart computing. "Smart Computing" is that the technology has entered into a new cycle of technical innovation and growth. He said that Smart Computing will grow rapidly because it will helps in business, solving problems, process optimization. Further he explained that Smart Computing will have a highly vertical industry focus but also facing challenges in navigating the shift to Smart Computing.



Second keynote session delivered by Dr. Sanjay Kakade Senior Director, C-DAC, Pune,

INSTITUTE OF on 12/03/2020 at ESCI 2020. TECHNOLOGY

Post lunch, we started the second keynote session by Dr. Sanjay Kakade, Dr Sanjay's talk was on "Computer Vision and Deep Learning". He started with introduction of digital image processing and processing stages in DIP. He said that the Digital image processing (DIP) focuses on two major tasks as follows:

proving of images or pictorial information for human interpretation

Processing of images for storage, transmission, and machine perception

He further explained enhancement using power law transformation, histogram equalization, computer vision in broader context which consists of physics, biology, physiology, mathematics, computer science and engineering. He explained various stages of object representation. Discussed some visual recognition problems and challenges. He explained in detail about convolution neural network (CNN) and layers in CNN. Also elaborated Deep learning and types of deep learning architectures. Highlighted on popular deep learning libraries and tools such as Torch7, Tensor flow, Keras and cuDNN.

**Day-:2** 



Mrs. A. D. Shiralkar, Head, Electrical Department, AISSMS IOIT, Pune introduced Dr. Akhil Gupta, Assistant professor, Lovely Professional University, Punjab.

Second day, we started with the third keynote session by Dr. Akhil Gupta, Assistant professor, Lovely Professional University, Punjab. His topic was Role of Machine Learning and AI in 5G. He started with introduction of Artificial Intelligence (AI), Machine leaning and 5G. During his talk he covered digitization driven by AI, IoT and 5G, importance of technology platforms and ecosystems, different levels of intelligence, network instructed device level AI, inevitable change in industry. He also explained Big Data and use of AI in IoT. He said using the Big Data withdrawn from connected devices we can create a Digital Twin of the physical world. AI Analytics on Digital Twin is expected to drive Optimization and Automation of the existing business process and Inventing new business models, solutions, and products. In conclusion he explained about challenges in validation and deployment.





Keynote session delivered by Dr. Akhil Gupta on 13/03/2020 at ESCI 2020



Mrs.A.D.Shiralkar, Head Electrical Engineering, AISSMS IOIT, Pune introducing Dr.Manoj Kakade, Birla Institute of Technology & Science, Pilani Pune Center.



Falicitation of Dr. Manoj Kakade by Dr. D.K.Shedge, Head Electronics Department, AISSMS IOIT, Pune

### Day-3

Third day, we stated with the fourth keynote session by Dr. Manoj Kakade, Birla Institute of Technology & Science, Pilani Pune He delivered keynote talk on topic Internet of Things. He started his talk with introduction of industrial revolutions wiz; 1,2,3,4, forces behind Industry 4.0. Further, he explained what is Internet of Things (IoT), concept, physical and logical design of IoT. He said that IoT syntactically is composed of two terms which are "Internet" and "Things." Therefore, IoT can be understood from two perspectives, which are "Internet oriented" and "Things oriented" He elaborates IoT enabling technologies, levels of IoT and deployment techniques. In conclusion he told that the scope of IoT is not limited to just connecting things (devices, applications, machines) to the internet. IoT allows the settings to communicate and exchange data while executing applications that work towards a common goal. Also, explored research opportunities and challenges in the field of IoT.



Fourth keynote session by Dr. Manoj Kakade on 14/03/2020 at ECSI 2020

Pre Conference Tutorial Session : Embedded Computing (11-March-2020, 11:00 – 13:00) by Dr. Ajay Deshmukh , Former Principal, Treasurer IAIAM, Pune.

Dr. Ajay highlighted the difference between general computing and embedded computing and Challenges in embedded computing. Also elaborate exponential growth in the penetration of embedded systems in almost all domains ranging from automobiles to home appliances .This trend is due to the intrinsic benefits offered by the embedded systems over traditional desktop systems and also due to rampant increase in the computational power of embedded processors, he concluded the talk by highlighting the importance of Selection of CPU, Project design Philosophy and product life cycle management and Both software and Hardware considerations in embedded computing



Dr. Ajay Deshmukh , Former Principal, Treasurer IAIAM, Pune delivered Preconference Tutorial Talk on 11/03/2020 at ESCI 2020 .

# Tutorial Talk 1: 5G Technology (12-March-2020, 15:00 – 17:00) by Mr. Nilesh Wankhede, RTTC, BSNL, Pune.

He highlighted that wireless communication technology has grown and advanced significantly over the years through research and innovation and discussed evolution of wireless technology from 1G to 5G along with infrastructure, devices and challenges in each stage, he stated that 5G moves us beyond networks design for mobile devices alone toward systems that connect different types of devices operating at high speeds. He then elaborated the key features of 5G that include high throughput, improved spectrum efficiency, reduced latency, better mobility support, and high connection density. It supports interactive multimedia, voice, video, Internet, and other broadband services and to support increased throughput requirements of 5G, new spectrum has been assigned to 5G in mm Wave bands and it will use Multiple Input Multiple Output (MIMO) to significantly increase network capacity. The talk was very informative and well appreciated by the participants.



Felicitation of Mr. Nilesh Wankhede, RTTC, BSNL, Pune by Dr.M.P Sardey, HOD, E&TC, AISSMS IOIT, Pune.







Mr. Nilesh Wankhede delivering Tutorial talk on 12/03/2020 at ESCI 2020

## Tutorial Talk 2: Block Chain Technology (13th March 2020, 11:00 am – 12:00 noon)

Talk on Block Chain Technology by Gulam Mohammed Shaikh, arranged for students at AISSMS, IOIT, Pune. 27 Students participated in this session. He has explained importance of block chain in the fields like finance services & use of block chain in IOT. He has also explained how block chain technology received extensive attentions now days. Also, explained exact meaning of block chain technology, it is not just a chain of blocks. But, here block is digital information which is stored in public database (chain). Following are the 3 parts of block as:

1st: Blocks store information about transactions like the date, time, and dollar amount.

2nd: Blocks store information about who is participating in transactions.

3rd: Blocks store information that distinguishes them from other blocks. Each block stores a unique code called "hash" cryptographic codes created by special algorithms that distinguish from every other block.







Mr. G. Mohammed Shaikh, System Analyst, Pristine Info-Solution delivering the tutorial talk ON 13/03/2020

# Tutorial Talk 3: Internet of Things (13<sup>th</sup> March 2020 11.00 am – 1.00 pm) by Mr. Nikhil Honmode, VP Project, Ascent Intellimation Pvt. Ltd Pune.

Mr. Nikhil Honmode deliver a talk on Internet of Things. He starts a session with discussion on Challenge of Industry 4.0 Connectivity with IoT. With giving example he differentiated between IoT & IIoT. Mr. Honmode explain the need of IoT as Bring visibility into Supply Chain, Bring visibility into outsourced operations, Bring critical to Quality issues on surface, Utilise the technology for improving human safety in operations, Transportation / fleet management. He covers the role of IoT in industry in different areas, Equipment and Facility Utilisation, Monitoring Connected Operations, Quality Control, Condition Based Maintenance Monitoring, Plant Safety and Security Logistics and Supply Chain Optimization. Also he focus on IoT in smart manufacturing. He shown the live demonstration of PlantConnect® SFactory software.



Mr. Nikhil Honmode delivering a Tutorial talk on Internet of Things at ESCI 2020.

# Tutorial Talk 4: Industrial Automation (13 march 2020 11.00 am to 1.00 pm) by Dr.Omprakash Barure, Director at BITC 2104, Pune. He is also a senior member of ISA.

Mr. Barure presented tutorial session on very interesting and demanding topic i.e."Industrial Automation" in which he has shared the fundamentals of process instrumentation, automation technologies, industry requirements, upcoming research areas and opportunities in the automation field. He has given overview of PLC, PAC, SCADA, HMI and DCS systems in various verticals such as dairy, food & beverages, pharmaceuticals and life sciences etc.

He highlighted various control systems, network protocols and discussed various dimensions of productivity and efficiency of the system. Mr Barure has held the attention of the audience by delivering talk on profitability and how to make it high while reducing downtime of machines and troubleshoot the systems faster.

He explained benefits of industrial automation with the help of case studies. He has discussed the applications of industrial automation in various domains with control mechanism. Mr. Barure has focused, "how the knowledgeable, skilled manpower is valuable asset of the current industries of the 21st century". He has explained in detail the role of Engineer in the phase of design, engineering, consultation, installation, commissioning and AMC of the project life cycle. He demonstrated wide range of automation products, PLC and other controllers.



Mr. Omprakash Barure delivering Tutorial talk on Industrial Automation at ESCI2020



Mr. Omprakash Barure giving overview of control system in Industrial Automation.



Mr. Omprakash Barure & his team demonstrating various automation products.

### **IEEE Poster Presentation Track**

Under IEEE ESCI conference various innovative tracks were introduced, IEEE poster presentation is one of them. This track got good response from enthusiast.

IEEE Poster presentation track speaks to a viable and important methods for creators to introduce their work results. It offers a chance of meeting with intrigued participants for detail logical and specialized conversations, and setting up new joint efforts. Consequently, it is significant that one should show outcomes plainly to draw in individuals who have an enthusiasm for your research or paper.

It is instructed that banner should cover the KEY POINTS of paper, which incorporate however not restricted to abstract, strategies, results and conclusion. Banner as simple as could be expected under the circumstances as this will spare time for conversations and inquiries with individual analysts.

The track was coordinated by Mrs.H.D.Shinde and Mrs.V.K.Patil. the evaluation of this track is done by-1.

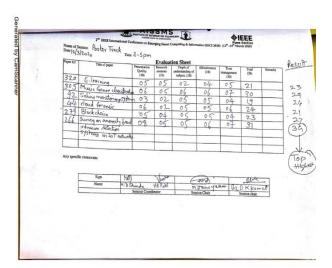


### **Winner for Poster Presentation track**

Survey on anomaly based intrusion detection systems in IoT networks-Sinhagad college of engineering, Pune

- 1.Rhishabh Hattarki
- 2.Shruti Houji
- 3.Sanika Patil
- 4.Sahil Dixit









**Glimpses of IEEE poster Presentation** 

### **IEEE Conf UG Track 2020**

IEEE International Conference on Emerging Smart Computing and Informatics (IEEE – ESCI 2020) - UG Track,

### Aim of the Conference - UG Track

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.

The Conference Inauguration done by Chief Guest Dr. Vijay Bhatkar. We have been fortunate to have some of the eminent persons from academia, industry and utility working for the Conference. We have received **250 papers under UG Track from all over India** and Reputed Colleges from Pune - PICT, VIT, VIIT, PCCOE, DYPCOE and many more. The papers were accepted through Microsoft CMT portal.

The Papers were presented in IEEE International Conference - ESCI 2020 and are published in

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

Scopus Journal - Test Engineering and https://www.scimagojr.com/journalsearch.php?q=12997&tip=sid&clean=0

Measurement

Web of Science Indexed Journal - International Journal of Future

### **Generation Communication and Networking**

http://sersc.org/journals/index.php/ijfgcn

We had more than 400 authors for Paper Presentation Sessions & Poster Presentation. Total 10 Sessions were conducted. Session Chairs from various Industry, Academic & Research Fields have guided and assessed the sessions.

### **Continuous Support and Advice:**

Honorable Secretary AISSMS Shree Malojiraje Chhatrapati, Mr. Girish Khilari, Vice Chair, IEEE Pune section, Prof. Vivek Deshpande, Prof. Mandar Khurjekar Members of International and National advisory committee all the keynote speakers, reviewers, technical committee members, special session chairs and session chairs. Shri Suresh Shindesaheb, Honorary Joint Secretary, Shri Ajay Patil, Treasurer, Advocate Bhagawanrao Salunkhe Chairman, Managing committee, AISSMS. General Chairs Dr. Rajesh Ingale sir and 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.

(IEEE – ESCI 2020) - UG Track





# INSTITUTE OF INFORMATION TECHNOLOGY







IEEE INTERNATIONAL CONFERENCE ON EMERGING SMART COMPUTING AND INFORMATICS (IEEE - ESCI 2020)

12 - 14 MARCH, 2020

IN ASSOCIATION WITH













ABOUT THE UG CONFERENCE: (ENGINEERING STUDENTS)

ABOUT THE UG CONFERENCE: (ENGINEERING STUDENTS)

This conference mainly focuses towards the emerging techniques required for smart computing and informatics. This conference aims to present a unified platform for advanced and multi-disciplinary research towards design of smart computing and informatics. The theme is on a broader front focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solution to varied problems in society, environment and industries. The scope is also extended towards deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and healthcare.

The IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2020) is the platform where academics and industry researchers present their latest algorithms, models and technologies and explore new trends and ideas on smart computing and informatics. The aim of this conference is to provide an allied platform for emerging trends in smart computing, networking, communication, signal and image processing, cyber security and IOT.

The key intention is to provide opportunity for the global participants to share their ideas and experiences in person with their peers expected to join from different parts of the world. In addition to this, the gathering will help the delegates to establish research environment as well as to find the international linkage for future collaboration in their career path. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment.

Throughout an engineer's career, the students are constantly called upon to communicate ideas to others. Researching, writing, and presenting a paper provides a student with invaluable early experience in expressing ideas related to their engineering field. International Conference on emerging s

The aim of this conference is to recognize technical, written and verbal communication skills of student members in the region and creating opportunities for collaboration to conceive and execute ideas.

### **OBJECTIVES**

- 1. To encourage students in the preparation of better technical papers in the field of engineering and technology
- 2. To present their research with superior presentation skills.
  3. To offer an opportunity for the students to interact with the leading personalities in their engineering field.
  4. Improvement in both written and verbal communication skills and gain knowledge on new technologies.

- 1. The Papers Presented in IEEE International Conference ESCI 2020 (UG Track) will be published in ISSN Proceeding Book of International Engineering Research Journal. 2. Good Quality papers may apply for Paper Publication in Scopus / Web of Science Journal. (\*Charges applicable)

### The conference invites the papers in the following domains / tracks but not limited to: (UG Track)

### Track 1: Smart Computing

- Artificial Intelligence and Machine Learning.
- Data Mining and Text mining.
  Big Data Analytics and Metrics.
- Cloud Computing
- Mobile Computing
- Parallel and Distributed Algorithms.
- Pattern Recognition and Analysis

### Track 2: Network and communication Cognitive Radio and Cognitive Networks. Communication Architecture.

- Control Systems and Applications. - Real-Time Networking
- Satellite and Space Communications Smart Grid Systems and Intelligent
- Smart Communication System Models

Track 3: Image and Signal Processing

- Image and Video processing.
  Object recognition.
- Speech processing
- Medical imaging

### Track 4: Cyber Security

- Access control, web filters and firewalls
- Vulnerability assessment and mitigating
- Information security management and
- Software security and secure coding

### Track 5: IOT and Automation

- Cognitive Approach for Robotics
- Mobile Robots and Intelligent Autonomous
- Human-Machine Interfaces

### Additional UG Track -

- Track 6: Electrical, Electronics & Communication Engg.
- Renewable Energy and Power System
- Integrated Systems, Circuits and VLSI
- Design
   Nano Technology & Photonics
- MEMS, NEMS
- Systems, Controls - HVAC and HVDC Systems

### CMT Link for IEEE Conference Paper Submission

https://cmt3.research.microsoft.com/UGESCI2020

### Registration Link: https://in.explara.com/e/ieee-esci-2020/checkout Important Dates :

Conference Date:	12 <sup>th</sup> , 13 <sup>th</sup> & 14 <sup>th</sup> March 2020
Abstract & Paper Submission:	15 <sup>th</sup> February 2020
Notification of Acceptance:	20th February 2020
Camera Ready Submission:	25 <sup>th</sup> Feb. 2020

Category	Fees
IEEE Student Member (Max. 4 Students)	INR 1000.00
Non IEEE Student Member (Max. 4 Students)	INR 1500.00
Participants(Non Presenter)	INR 200.00
Accompanying Extra Author	INR 500.00

Chief Patron

Shrimant Shahu Chhatrapati Maharai, Kolhapur

Shri Sambhajiraje Chharapati

Shri Malojiraje Chhatrapati

(Hon. Secretary)
Shri Suresh Pratap Shinde
(Hon. Joint Secretary)
Shri Ajay Uttamrao Patil

Shri Vishwas Bajirao Patil

man, Governing Council)

(Chairman, Governing Council)
Adv. Bhagwanrao Baburao Salunkhe
(Chairman, Managing Committee)
Mr. Dinanath Kholkar
(Chair, IEEE Pune Section)
Mr. Girlah Khilari
(Vice Chair, IEEE, Pune Section)

General Chair

Dr. P. B. Mane, Principal, AISSMS IOIT, Pune Dr. Rajesh Ingale, Chair, IEEE Pune section (CSC)

Organising Chair

Dr. Suresh Limkar, AISSMS IOIT, Pune Prof. Mandar Khurjekar, Chair, Conference IEEE

- Dr. Amar Buchade, Secretary, IEEE Pune Section Dr. D. M. Tagare, Ex-Chair, IEEE Pune Section

- Dr. D. M. Tagare, Ex-Chair, IEEE Pune Section
  Dr. D. J. Doke, Ex-Chair, IEEE Pune Section
  Dr. G. S. Mani, Ex-Chair, IEEE Pune Section
  Dr. P. K. Sinha, Ex-Chair, IEEE Pune Section
  Dr. Pratapsinh Kakaso Desai, President, ISTE
  Dr. B. B. Ahuja, Director, COEP, Pune
  Dr. J. W. Bakal, Chairman, IETE
  Dr. L. M. Waghmare, Dean, S&T, SRTMU Nanded

- Dr. L. M. Waghmare, Dean, S&T, SKTMU Nanded Dr. Rajashree Jain, Treasurer, IEEE Pune Dr. Anil Tavildar, Chair, IEEE Pune (SPC) Dr. Mukhopadhyay, Director, NHITM, Mumbai Dr. D. S. Bormane, Chairman, BoS (E&TC) SPPU Dr. R. K. Kamat, Professor, Shivaji Uinversity, Kolhapur Dr. S. R. Gengaje, Associate Dean,
- PAH Solapur University
  Dr. Abhay Bansod, Director, Emerson, Pune
  Prof. Akshaya Nayak, IISc, Bangalore
  Mr. T. M. Gunaraja, President, IEI
  Mr. Dilip Kumbhat, President, ISLE
  Mr. Ravi Makanikar, President, ISA

### Contact Details

Dr. Sanjay Kurkute, UG Track Chair Mob: 9850138017 | drsanjaykurkute@gi Dr. Sarika Panwar, UG Track Co-Chair

Full Paper Submission:

Authors are requested to send the paper on CMT Link Authors are requested to send the paper on CMT Link
1.The following link can be referred for templates in
Microsoft Word and LaTeX,
https://www.ieee.org/conferences/publishing/templates.html
2.The length of your manuscript should be of
maximum 4 pages.

3. Your manuscript should be made a PDF format.

Scan this QR Code for Registration Link



### **Doctoral Consortium**



### The internal and external expert team at Doctoral Consortium

The goal of the Doctoral Consortium is to create an opportunity for Ph.D. students to test their research ideas, present their current progress and future plans, and receive constructive criticism and insights related to their future work and career perspectives. A mentor (a senior researcher who is active in the field) will be assigned to each student to provide individual feedback. In addition, students will have the opportunity to present an overview of their research plan during a special poster session. Participation in the ESCI 2020 Doctoral Consortium will be limited to a maximum number of students (about 40). Prospective participants are encouraged to submit their application by January 15th, 2020 (submission procedure detailed follows). The Doctoral Consortium Chairs will then review all applications received. Preference will be given to students who are at a stage in their studies most likely to benefit (i.e., they have identified a research direction and published some initial results, but the thesis is not yet set in stone). There will be a nominal registration fees of Rs. 500/- for participating students. The ESCI 2020 Doctoral Consortium will take place the first day of the main conference, i.e., 12th March 2020.

The Doctoral Consortium Chairs will review all applications received, and will organize the assignment of mentors with expertise in the PhD research topic of the student. To assist the assignment process, mentors indicate their field of expertise and may place a bidding for a specific student.

### **SUBMISSIONS**

Students willing to participate in the ESCI 2020 Doctoral Consortium are kindly requested to email the following items to esci2020dc@aissmsioit.org

- Name and Affiliation
- Title
- Abstract, i.e., short description of their PhD research
- Submission package (as a single PDF file; for more details see below)

The submission package should contain the following information:

- Student's name
- Supervisor of the thesis

- University
- Starting date of the PhD
- Expected finalization date of the PhD
- Short research plan (1 page)
- Short CV (1 page)

The research plan should contain an overview of the PhD topic, the steps made so far (including a list of publications), and the actions planned before finishing the PhD, especially novel research ideas to be pursued.

For this session Internal and external experts were allotted.

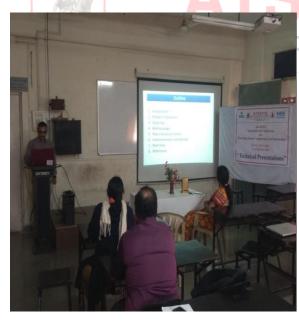
Sr.	Name of the Expert	Internal Expert	Venue	Assistant
No.				
1	Dr.P.K. Srivastava			
	Principal			
	ISB&M "School of Technology"			
	Sr. No.44/1, 44/1/2			
	Nandegaon, Tal. Mulshi Pune.			
2	Dr. P. P. Bartakke			
7	E&TC Department,	CAAG		<b>A</b>
	College of Engineering, Pune-411001			
3	Dr. Vaishali V. Patil (Chavare)	MATION TEOL	INIOI OOV	
	Ph.D. (I.I.T. Bombay)	Dr. V. K. Bairagi	Conference	Mrs. N. S. Warade
7	Principal, ADDING VALUE	TO ENGINEERING	Hall	Dept. of E&TC
	International Institute of Information Technology			Engineering
	(I2IT),Hinjawadi, Pune.			
4	Dr. Shailaja Patil,			
	E&TC Department, RSCOE, Pune			
5	Dr. Mrs. V. S. Vyas			Mr. Amol A.
	E&TC Department,			Chaudhari
	College of Engineering, Pune-411001	Dr. D. K. Shedge	305	Dept. of E&TC
				Engineering
6	Dr. M. S. Nagmode		509	Mrs. P. N. Gulhane
	Professor, E&TC Department,			Dept. of Computer
	Government College of Engineering & Research			Engineering
	Avasari - Khurd, Pune 412405	Dr. K. S. Wagh		













Glimpses of Doctoral Consortium @ESCI-2020

# Glimpses of paper presentation @ESCI-2020



### **Cultural Programme**

Kalakari - Band Performance at IEEE International Conference, AISSMS IOIT, Pune.

On the second day of the conference (13/03/2020) Kalakari music band "The Lost Note" performed for the audience including staff, IEEE officials, sponsors and guests. It was a total musical experience for entire crowd which continued for time period of 1hr.

The Band Performed songs of multiple genre which had a range from western to classical music. Anchoring was done by Ashish Amlani and Abhishek Watni from the Kalakari Team. They started the event by greeting the guests and staff and witnessing the sponsors event began.

First the band played "Nandi" a classical song witnessing lord Ganesh and paying their respects to the gods. Song was performed in a soulful way and it created an atmosphere of peace among the guests. Between each song played there was small anchoring sessions to entertain and address the sponsors. After a soulful start from "Nandi" band then played a classical rock song named "Jogi by Swastik The Band". song was a combination of classical and rock music genre including Flute, Tabla, Guitars, Synth, Drums, etc.

After that band performed a set of English songs remix which was combination of different famous English songs mixed. It was complete western styled composition and showcased the bands multi genre abilities. After western style performance the band played Instrumental session of 5 mins. Anchoring sessions were included between all the songs intervals.

At last band by playing a Classical mix of famous Marathi songs which was loved by the guests and included every type of classical instruments. Ending of the event was done by the anchors by witnessing all the guests, staff and sponsors. Event lasted for a time of 1hr. It was an hour of complete entertainment. List of People who Performed at the Event is as Below —

**Vocalists** – Rohit Tarate, Pawan Chougule, Pawan Sagade, N.V Roshni.

**Guitarists** – Krishna Sonawane, N.V Roshni.

**Drummer** – Raj Sali.

Synth - Rachit Deo, Abhishek Nalge.

**Bass Guitarist** – Aniket Aher.

**Tabla** – Hari Srinivas.

Flute - Sarvesh Rodi.

**Anchors** – Ashish Amlani, Abhishek Watni.

Glimpses of the event











### 11. ESCI-2020 PAPER SUBMISSION METRICS

		India	South Koria	Bandladesh	lerland	Australia	Iran	Egypt	Soudi arebia
IEEE Conference Paper Online Registration/Payment	71	63	1	2	1	1	1	1	1
IEEE Conference Participants/Non Presenter ( Online Registrations/Payment )	19	19							
Poster Presentation from IEEE track ( online registration/Payment )	14	14							
Doctorial Consortium ( online registration/Payment )	19	19							

### 11-A. Response to the Conference

As the name of conference is self explanatory regarding the scope it is giving to the international/national participants. The conference received colossal response. The scope of the conference was so wide that it attracted academician, researchers, doctorate scholars, UG-PG students, Industrialist.

### 11-B. Review Process

- 1) implored papers in five tracks through Call for paper
- 2) Conducted plagiarism check of the submitted paper in respective track using IEEE CROSSCHECK PORTAL Depending on the result, took appropriate action from the following options: -

If Plagiarism > 30%, then asked to resubmit with modification.

If Plagiarism < 50 % and > 20%, then asked the author to improve the paper further

- 3) Assign each paper to the Reviewers for review.
- 4) Follow up of reviewers and encourage them to submit review timely.
- 5) Reviews are shared with authors and follow up of the suggestions given to them.

### 11-C. ESCI 2020 Metrics.

750Research papers have been submitted for ESCI 2020 and out of them 73 quality papers ie. 12% papers are selected for presentation. The detail statistic given below:-

Particulars	Information
Total paper received	750
Paper selected after blind review	80
Number of participants registered as listener	45
Total Delegates registered for ESCI 2020	73
Total papers presented at the conference	69
Absenteeism	04
Total attendance at ESCI 2020	100
Number of Indian States from where papers were received	09

### Participation of International Universities in ESCI- 2020

All Nations University College, Koforidua, Ghana

Lebanese French University - Erbil,

Cihan University - Duhok,

Kurdistan Region, Iraq

Salahaddin University, Kurdistan Region, Erbil, Iraq.

Jazan UniversityKingdome of Saudi arebia

University of Technology Sydney

College of Computer and Information Technology, Arab Academy for Science & Technology and

Maritime Transport, Cairo, Egypt

Ulsan National Institute of Science and Technology Ulsan, South Korea

College of Science for Women, University of Babylon, Babylon, Iraq

University of Cape Town Cape Town, 7700, South Africa

Software Research Institute, Athlone Institute of Technology, Athlone, Ireland

Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh

El Gazeera High institute for Engineering and Technology Cairo, Egypt

Lebanese French University - Erbil, Kurdistan Region, Iraq

University of Africa Toru-Orua, Niger

### Participation of Indian Institutes / Universities in ESCI- 2020

Dr. N.G.P Arts & Science College Coimbatore, India

Srinivas University - Mangalore, Karnataka, India

BGSB University, Rajouri, India

Aligarh Muslim University, Uttar Pradesh, India

NIT Srinagar Srinagar, India

M.I.E.T Engineering College, Trichy, India

Jawaharlal Engineering College (J.N.E.C), Aurangabad (MS), India

Anurag Group of Institutions Hyderabad, India

School of Computer Science and Engineering, VIT University, Vellore, India

School of Computing, E.G.S.Pillay Engineering College (Autonomous) Nagapattinam, India

Computer Science and Information Science, Srinivas University, Bengaluru, India

University Institute of Engineering, Chandigarh University, India



Chitkara University Institute of Engg. and Technology, Chitkara University, India

VFSTR (Dee3Amity Institute of Information Technology, Amity University Uttar Pradesh, Noida,

Computer Science and Engineering, Amity University Gwalior

National Institute of Technology Bhopal, Bhopal, India

ECE.IEC College of Engineering & Technology Gr. Noida, India

CSE.IEC College of Engineering & Technology Gr. Noida, India

Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand, india

BAJAJ Institute of Technoloy and Management, Greater Noida, India

Gautam Buddha University, Greater Noida, Gautam Buddha Nagar, India

Banaras Hindu University, Varanasi, India

Bharati Vidyapeth's COE for Women, Pune, India

St. Francis Institute of Technology, Mumbai, India

GLA University, Mathura

Netaji Subhas University of Technology, New Delhi, India

Assam Don Bosco University Guwahati, Assam, India

NIT Calicut Kozhikode, India

KIIT, Deemed to be University, Bhubaneshwar

Dr. Rammanohar Lohia Avadh University Ayodhya, India

Jagdishprasad Jhabarmal Tibrewala University, Larsen & Toubro Infotech, Mumbai, India

K J Somaiya Institute of Management Studies & Research, Mumbai, India

Kalinga University, Raipur

3Indian Institute of Technology Bombay, Mumbai, India

1Visvesvaraya Technologic1SRM University-AP, Amaravati Andhra Pradesh, INDIA

al University, PG centre, Belagavi, India

Sanjay Ghodawat University Atigre, Kolhapur, India

Visvesvaraya Technological University PG centre, Belagavi, India

Dr. BATU Lonere

College of Vocational Studies, University of Delhi, New Delhi, India

Indian Institute of Technology, Delhi, Hauz-Khas, India

Amrita School of Engineering, Bengaluru, Amrita Vishwa Vidyapeetham, India

School of Electronics and Electrical Engineering, Lovely Professional University Jalandhar, India

Participation of Industries in ESCI- 2020

Microsoft Corporation, USA

HCL Technologies, Chennai, India

Optum Tech | United Health Group.

Accenture Solutions Pvt Ltd, Pune, India

Network Management Lab, Ericsson, Athlone, Ireland

INTEL Corporation. Bangalore, India

State Bank of India, Zonal Office, Bhagalpur, India

CSIR Centre for Mathematical Modelling and Computer Simulation (C-MMACS), Bengaluru, Karnataka

Production Technology Development Division, Bhabha Atomic Research Centre, Mumbai, India

GCET, Greater Noida, India

SmartyList, Bengaluru, India



# **Paper Presentation Session Summary**

Sr.No	Name of Session	Best Paper Title	Name of Presenter
1	Soft Computing I	Ground truth mapping with multi	Mr. Venkata Saikrishna Vanama
		temporal Earth observation data in	
		ESA cloud box : A case of Kerala Flood	
		event occurred in 2018.	
2	Advances in next	Investigation of Interference	Mr.Koushik Barman
	generation internet	Management Mechanism for D2D	
	and communication	Communication in Licensed Band	
	network	Spectrum	
3	Recent	Comparison and Performance	Mr.Shanu Bhardwaj.
	Advancements of	evaluation of Software -Defined	
	Artificial	Networking controller.	
	Intelligence in		
	Computer Science		
	Applications		
4	Intelligent	Detection of Alcoholics using EEG and	Mr. Sandeep Bavkar
	Engineering	EMD Domain statistical features	
	Applications for		
	Societal		
	Development		
5	Soft Computing-2	Mechanisms for Source Code	Ms. PallaviAhire
		Obfuscation in C: Novel Techniques	
		and Implementation	
6	IoT And	Automatic Irrigation system based on	Mr. Prashant Wakhare
	Automation	IOT for crop yield prediction	Mr.Gaurav Sonawane















### **12. VALEDICTORY FUNCTION**



### Feedback

Sections	About conference Tracks, arrangements, Experts, Judges	Suggestions / improvements	Remarks
Listners/Guests	Innovations, ideas, Solutions are discussed, Inclusive theme, Excellent arrangements	Separate sessions for research, academicians & Students.	Best Event Management, organized Team
Presenters	The theme of Conference is Contemporary ,Experienced keynote speakers, Good arrangements	Panel Discussion with experts Sessions should adhere to the stipulated time	good Experience

#### **Takeaways from the International Conference**

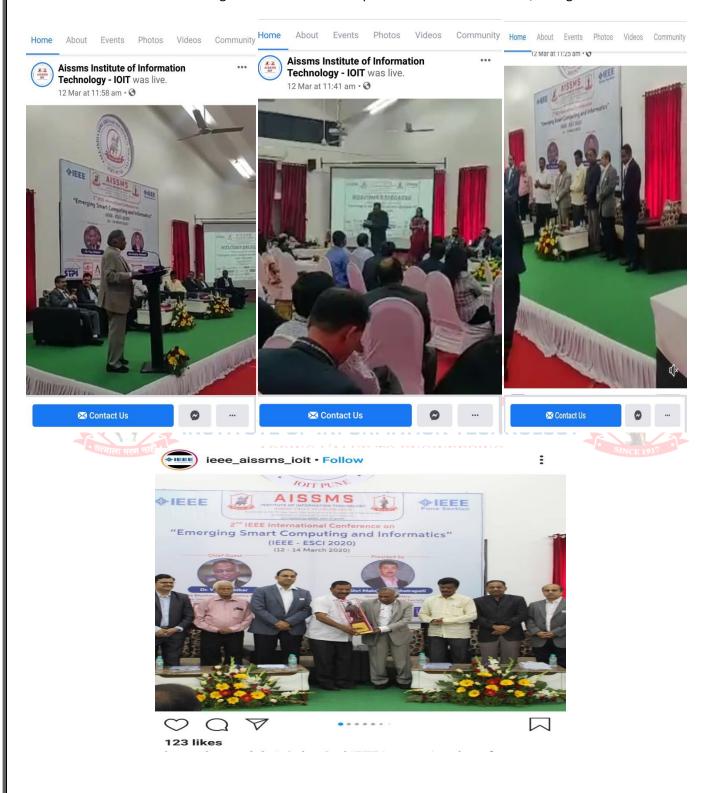
The 2<sup>nd</sup> IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2020) is the platform where academics and industry researchers present their latest algorithms, models and technologies and explore new trends and ideas on smart computing and informatics. The aim of this conference is to provide an allied platform for emerging trends in smart computing, networking, communication, signal and image processing, cyber security and IOT.

The key intention is to provide opportunity for the global participants to share their ideas and experiences in person with their peers expected to join from different parts of the world. In addition to this, the gathering will help the delegates to establish research environment as well as to find the international linkage for future collaboration in their career path. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment.

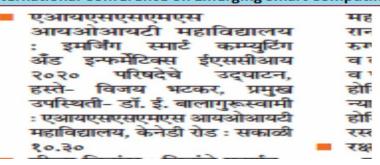
The conference proceeding invites academics and industry researchers for publication of papers explaining literature review, problem statement, methodologies with appropriate results. The selected papers will be sent to the experts for review. Acceptance will be based on significant and innovative content, originality and unpublished quality work. Accepted and presented papers will be published in IEEE Explore digital library. The Conference also invites special topics, tools and applications in multidisciplinary areas with workshops, tutorial sessions by expert academicians and professionals.

### 14. MEDIA COVERAGE

Social Media Live coverage was done on various platforms like face book live, Instagram



The conference news was aired in Pune Akashwani and leading newspapers and IEEE magazines.





### सकाक

### अभियांत्रिकीचे शिक्षण मातृभाषेतून हवे : भटकर

१३ : अभियांत्रिकीच्या पुणे, ता. १३ यांचे योग्य विषयांचे आकल्डन सुलभीकरणासाठी शिक्षण मातृभाषेत गरजेचे आहे, असे मत ज्येष्ठ शास्त्रज्ञ डॉ. विजय भटकर यांनी व्यक्त केले.

शिलाजी SITES इंडिया श्री शिवाजी सोसायटीच्या मेमोरिअल महाविद्यालयात आयओआयटी स्मार्ट कॉम्प्युटिंग इमजिंग ओंड इन्फॉरमेटिक्स' या परिषदेचे आयोजन करण्यात आले होते. या वेळी उद्घाटन समारंभात् प्रमुख अतिथी म्हणून् ते बोलत होते. मानद सहसचिव सुरेश

शिंदे, प्राचार्य डॉ. पी. बी. माने, गिरीश खिलारी, अजय पाटील उपस्थित होते. डॉ. भटकर म्हणाले, ''आंतरराष्ट्रीय डा. भटकर म्हणाल, आतरराष्ट्रीय परिषदा केवळ नावीऱ्यपूर्ण आणि संशोधनासाठी व्यासपीठ उपलब्ध करून देत नाहीत; तर बिद्धार्थ्यांना उद्योगातील नवनवीन संधी आणि क्षेत्रे कुठली आहेत, यावाबत अद्ययावत करतात. परिषदेचा विषय सर्वांत विषय सर्वात विषय समावेश करतात. पारवदंचा विषय संवात अलीकडील विषयांचा समावेश करतो, 'इन्फॉरमेटिक्स' शब्द भाषेला संदर्भित करतो आणि 'कॉम्प्युटिंग' शब्द गणिताचा संदर्भ देतो.''

Pune, Pune-Today 14/03/2020 Page No. 3



## 0

### IEEE Pune Section Activities

#### 1. Annual General Meeting

V

The annual general meeting of IEEE Pune Section was held on 10<sup>th</sup> January 2020. IEEE Pune section Awards were given in seven different categories by Mr Dinanath Kholkar, Ex. chairperson, IEEE Pune Section in the AGM. The Responsibilities were handed over to the new ExComm of Pune Section for the year 2020. This Includes Mr Cirish Khilari, Chairperson; Mr. Jagadish Choudhari, Vice Chairperson; Dr. Amar Buchade, Secretary; Dr Rajashree Jain, Treasurer.

#### 2. Lecture on Towards Autonomous Video Surveillance

Signal Processing Society - Pune Chapter organized "Distinguished Lecture" by Prof Janusz Konrad, Professor (ECE) Boston University, Senior IEEE member, the United States on 14th January 2020, on the topic "Towards Autonomous Video Surveillance", The lecture was attended by 72 UC/PC/PhD students and Faculty of various departments from different institutions, out of which 22 members were IEEE Members.



#### 3. Conference on Industry 4.0 Technology 2020

Conference on Industry 4.0 Technology - 2020 (I4Tech 2020) was organized from 13th-15th February 2020 by Department of Instrumentation Engineering and Computer Engineering, VIT, Pune and was technically sponsored by IEEE Pune Section which included Dr Ramanujan Kashi's Key address and Dr Dhananjay Singh's talk on "Industry 4.0."



#### 4. ESCI-2020

4. ESCI-2020

The second IEEE International Conference on "Emerging Smart Computing and Informatics-ESCI-2020" was organized at AISSMS IOIT, Pune co-sponsored by IEEE Pune Section. The three day conference scheduled from 12 to 14 March 2020 was inaugurated by Padma Bhushan Dr Vijay Bhatkar. This conference aimed to provide an allied platform to emerging trends in smart computing, networking, communication, automation, IoT signal and image processing and also to provide an opportunity to global participants experiences. The conference received overall 720 papers from which 73 papers were accepted presentation and 50 papers for a poster presentation. To encourage research attitudes in UG studenthe UG track was introduced at the conference.



☐ ☑ / IEEE India Council

### **ESCI-2020 Publicity Creative's**

### **Inauguration Creative**





**Keynote Session & Tutorial Creative** 

HIPE GOMATI ENGINEERS ATTROOPS GRIT ON ENGINEERING



### INSTITUTE OF INFORMATION TECHNOLOGY



ADDING VALUE TO ENGINEERING Affiliated to Savitribai Phule Pune University (ID No. PU/PN/ENGG/124/1998)

Approved by AICTE, New Delhi and Recognised by Govt. of Maharashtra Accredited by NAAC with 'A' Grade

### 2<sup>nd</sup> IEEE International Conference on Emerging Smart Computing & Informatics (ESCI - 2020)

### Keynote Speakers



Dr. Israel Cohen **Topic Array processing** & Beam forming with Kronecker products 12th March 2020, Multipurpose Hall 11.30 am to 1 pm



Dr. Andino Maseleno **Topic Internet of Things** & Society 5.0: Research Areas, Challenges & Applications 12th March 2020, Multipurpose Hall 2 pm to 3 pm



Dr. Chuan-Ming Liu Topic Some Issues of Data Management in **Emerging Computing** Environments 14th March 2020, Multipurpose Hall 1 pm to 2 pm



Dr. Akhil Gupta **Topic Role of Machine** Learning & Al in 5G 13th March 2020, Multipurpose Hall 10 am to 11.30 am

### **Tutorial Speakers**



Mr. Bali Arvind **Topic 5G Technology** 12th March 2020, Room No. 305



Mr. Tomio Isogai Topic Be Global 12th March 2020, Room No. 112



Mr. Sanket Thodge Topic Blockchain Technology 13th March 2020, Room No. 605



Mr. Rizwan Shaikh Topic Blockchain Security 13th March 2020, Room No. 605



Dr. Akhil Gupta Topic Role of Machine Learning for 5G 12th March 2020, Room No. 509



Topic loT 13th March 2020, Room No. 704



Mr. Nikhil Honmode Mr. Omprakash Barure Dr. Ajay Deshmukh Topic Industrial Automation 13th March 2020,



Topic Embedded Computing 11th March 2020,



Dr. Sparsh Sharma **Topic Cyber security** & Ethical hacking 12th March 2020,

**Our Contributors** 























- \*INNOVATION

SEEK I OBSERVE I RESEARCH I TRANSFORM









Creativity through understanding fundamentals Automation for life simplification

Flowers & Nursery







### **GRADSMITHS**





















### **Key Contributors**



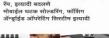




## FTCP - Field Technician omputing and Peripherals

Computing and Peripherals जो का कारावारी - 3 महिले (३०० तास) जारता - 4 नहीं (३०० तास) जारता जारता

अच्यासक्रम् – हार्डवेअर रिपेअर्शेग, मायक्रोफोन, स्पिकर, रूंम, इत्यादी बदलणे मोबाईल घटक सोल्डरिंग, फॉर्शिंग ॲन्ड्रॉईड ऑपरेटिंग सिस्टीम इत्यादी





आय सपोर्ट Skill India

### **Bedside Assistance**

कोर्स कालावधी – ३ महिने (४५० तास) पात्रता – ८ वी पास

पावता - ८ वी पास
अध्यादाम्य - प्रथमे।पारावार / वेहिंगा, रपंज / अंबरकण
स्वान्त पांचार / वेहिंगा, रपंज / अंबरकण
स्वान्त पांचार संगोपना, डोळा / काल
काळजी - हात आणि पाय यांची काळजी,
कावार बन्तें, रहेजां, बेंगिंग आणि हिंगाने कालजी,
कावीयदावा पावपः, कावार, नावश्योत्वार,
कावीयदावा पावपः, कावार, नावश्योत,
केंद्राचीरितं पायपः, कंवार, नावश्योत,
कावार, कंवार, कंवार, कंवार, कंवार,
कावार, कंवार, कंवार, कंवार, कंवार,
केंद्राचीरितं, कंवार, कंवार, कंवार,
केंद्राचीरितं, कंवार, कंवार, कंवार,
केंद्राचीरितं, कंवार, कंवार, कंवार, कंवार,
केंद्राचीरितं, कंवार, कंवर, कंवार, कंवर, कंवार, कंवार, कंवार, कंवार, कंवार, कंवार, कंवार, कंवार, कंवर, कंवार, कंवर, क







- ✓ Well equipped and world class infrastructure.✓ ISO 9001 : 2008 certified company.
- Partnered with State Govt of Maharashtra, Karnataka, Gujarat and Jammu & Kashmir for various skilling initiatives.
- All passed students will be awarded with Gov. certificate.
- ☑ 100% Job entitled courses.
- Campus Interviews. Abundant practicals on latest equipments.
- ✓ Industry competent trainers.

### For Enquiries & Training Aspire Knowledge and Skills – Technohard Computer

"Kashinath Sadan, 1289, Shivajinagar, Pune – 411005. Call: 91516616668 / 9168646595

प्रशिक्षण आणि निर्धारण शुल्काची पूर्ण रक्कम सरकारतर्फे भरली जाईल

### **Annexure-1 List of Reviewers**

### List of Reviewers

Dr. Sable Ganesh

Dr. Autee Rajesh M

Dr. Jaiswal Rupesh C.

Dr. Somani Sunil B

Dr. Prabhakar N. Kota

Dr. Chopade Pravin B

Dr. Bhalke D. G.

Dr. Jadhav B.D.

Dr. Birari Vijay

Dr. Deogaonkar Varsha

Dr. Ghate Pravin

Dr. Darwante N. K.

Dr. Pawar, S. N.

Dr. M. S. Nagmode

Dr. P.S. Deshpande

Dr. S. R.Ganorkar

Dr. Varsha K. Harpale

Dr. Rashmi Mahajan

Dr. Shailaja Patil

Dr. Mousami V. Munot

Dr. Arati Vyavahare

Dr. Sanjeev kumar Shrivastav

Dr. Sushanta Mandal

Dr. Vijaya Pawar

Dr. Sandeep Shinde

Dr. Manikrao Dhore

Dr. S.T. Patil

Dr. Ram Joshi

Dr. Sharmista Desai

Dr. Nuzhat Faiz Shaikh

Dr. Sharmila Kishor Wagh

Dr. Jayshree Rahul Pansare

Dr. Allam Balaram

Dr. Sonkamble B

Dr. Sapkal Ashwini

Dr. Sulochana Sonkamble

Dr. Turkane Satish

Dr. Archana Chougule

Dr. Sarode Sambhaji

Dr. Jyoti Malhotra

Dr. Pallavi S. Deshpande

Dr. Mandip Gandora

Dr. Saurabh Deshmukh

Dr. Phursule Rajesh

Dr. Sable Nilesh

Dr. Patil Sangram

Dr. Singh Sanjiv

Dr. Suhaib Ahmed

Dr. Somani S. B.

Dr. Sable Ganesh

Dr. Jadhav M. M.

Dr. Mapari Rahul

Dr. Yogesh Angal

Dr. Pawan Ajmera

Dr. Dipali Shinde

er i er peni armi se

Dr. K. Paramsivam

Dr. Bandu Nandekar

Dr. Swati patil

Dr. Dhananjay Upasani

Dr. Arun Biradar

Dr. Sampada Dhole

Dr. M. Dale

Dr. Pradeep M. Patil

Dr. Raviraj Havaldar

Dr. Prashant Dhotre

Dr. Krishna Warhade

# List of Reviewers

Dr. Virendra Shete

Dr. N. Chopade

Dr. Pavan Gujjar

Dr. Ashok Kusagur

Dr. Rajesh Mapari

Dr. P.T. Karule

Dr. S. Chavan

Dr. Devendra Gadekar

Dr. Pramod Kulkarni

Dr. Rekha Labade

Dr. Ajay Paithane

Dr. Shyam Akashe

Dr. Ashish Panat

Dr. Nagendra H

Dr. M. Kolte

Dr. J. Jegan

Dr. Tanaji Dhaygude

Dr. Manoj Sardeshmukh

Dr. Suhasini Itkar

Dr. Sunil Dhore

Dr. Shrishail Patil

Dr. Vivek Deshpande

Dr. Joeprathap P.M.

Dr. Durgaprasad Kamat

Dr. Neha Sharma

Dr. Rajesh Prasad

Dr. Kavita Asnani

### **Annexure-II Track-wise Final Summery**

### ESCI2020 IEEE International Conference On Emerging Smart Computing And Informatics 2020 Summary of Papers after Final Call

Paper ID	Submission 1 Plagiarism %	Submission 2 Plagiarism2 %	Plagiaris m	Paper Title					
			Status						
	Track Name : Smart computing								
6	47	47		A survey on a mobilized automatic human body					
7	36	33		A Survey on Blackchain in Banking System					
8	66	67		Heart Disease Prediction using Machine Learning Classifiers					
11	73	47		A Review on Sarcasm Detection Techniques					
16	27		ОК	Generalization Of a Self-Driven Car					
17	19		ОК	Student Performance Analysis and Counseling System (SPACS) using Soft Computing by Fuzzy Rule Formation and Decision Making					
19	31	31	55	Optimal PID control of a buck conveter using MOBA and IMOBA					
20	21	STITUTE OF I	NFORMA	Effect of obesity on heart rate variability among obese middle-aged individuals					
24	भत्याला भरग नार्च 10	ADDING	VALUE TO E	TIMESTAMP BASED RECOMMENDATION SYSTEM WITH RATING PREDICTION USING (CSFE-PSGR) TECHNIQUE					
27	26		ОК	Multi-objective Optimization approach for information retrieval with the aid of Machine learning Techniques using IoT big data					
34	8		OK	Micro-content Short listing Using Interactive AI Method					
39	4		ОК	S.P.A.R.S.H (Smart Portable and Aordable Braille Script Helper) - Accessible AI('AI'1y) for the Deaf-Blind					
40	45	17	ОК	A Survey on Severity Prediction And Detection Of Parkinson's Disease Using Machine Learning					
44	50			A Survey on Secure Log Scheme for Cloud Forensics					
48	29		OK	A Review On Smart Assistive Devices To Aid The Visually ImpairedA Review On Smart Assistive Devices To Aid The Visually Impaired					
49	37	13	Ok	PERSONAL AI ASSISTANT WITH EMOTION RECOGNITION					

_				
50	22		ОК	Predictive Technique of Task Scheduling for Big Data In Cloud
51	31	22	OK	Natural Language Transfer Learning for Physiological Textual Similarity
54	25		OK	Personal Aide for Alzheimer's Patients
58	30		OK	Identification of Medicinal Plant using Image Processing and Machine Learning
61	14		ok	DEVELOPMENT OF SCRUM-TREE-KNN ALGORITHM FOR DISTRIBUTED AGILE DEVELOPMENT
68	24		ok	A Review of Emerging Devices Beyond MOSFET for High Performance Computing
72	34	28	ok	Predicting Breast Cancer using effective Classification with Decision Tree and Means Clustering technique
76	30		ok	A Comprehensive Big Data Analytics based framework for premature recognition of breast cancer
80	12		ok	Real-Time Detection and Prediction of Heart Diseases from ECG Data using Neural Networks
86	72	AI	55	Software Engineering and Programming Languages
91	23 • लत्याला भरण नाही	STITUTE OF I	OK NFORMAT	FinFET Technology : As A Promising Alternatives for Conventional MOSFET Technology
93	16	********	ok	Data Cleaning: Issues, Approaches and Comparison of Tools
102	12		ok	Eulerian video magnification method for biological parameter measurement in contactless manner
104	81	8	ОК	Study And Analysis Of Medical Data Mining Techniques In Healthcare For Heart Disease Using Hybird Approach
105	26		ok	NAD: Neuron Activation based Divergence Maps
110	8		OK	Contemporary Art and Artificial Intelligence: New Development Attractors
115	9		ok	Automatic Subtitles Generation of Videos
117	10		ok	Predicting the Stock Market using News Headlines
120	51			Apparel Classificatio using Neural Network
121	24		ok	Autonomous chessboard
122	36	23	ok	Soft Computing based Approaches for Classifying Diseases using Medical Diagnosis Dataset

View Histories and Feedback Systems  Attendance Monitoring System Using CNN  Application of Machine Learning for the Detection of Heart disease  CREDIT CARD FRAUD DETECTION  ADDING  OK  Application of Machine Learning for the Detection of Heart disease  CREDIT CARD FRAUD DETECTION  Modi 2.0: Use of generative pre-training transformers for political speech generation  Transformers for political speech generation of narrow-band signals from multiple sources  Integrating Block chain and Machine learnin for Electronic Health Record  Rew Approach for Root-cause Analysis of Stragglers in Big Data System  OK  Spatial Data Mining- A Comprehensive decision support system in agriculture management  OK  Ontology Enabled Taxanomy Management  A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique		I	ı	1	1
130 91 The Privacy-Preserving Challenges in Fog Computing and a Review of Solutions 134 17 ok Analysis of Personality Traits using Natural Language Processing and Deep Learning 137 20 ok Analysis of Personality Traits using Natural Language Processing and Deep Learning 138 41 Provided the service of the s	125	31	29	ОК	Interpolation on OTIS and Bi-Swapped
Learning Model  The Privacy-Preserving Challenges in Fog Computing and a Review of Solutions  Analysis of Personality Traits using Natural Language Processing and Deep Learning  Analytical study of seasonal impact on air pollution and proposed solution to improve the air quality. For the use in air pollution prediction algorithm of deep learning  A Framework for Meta Search Engine of Private Hospitals Service Cost Recommendation by Using Page Ranking Techniques  Programming Edit Recommendation throug View Histories and Feedback Systems  Attendance Monitoring System Using CNN  Application of Machine Learning for the Detection of Heart disease  CREDIT CARD FRAUD DETECTION  Modi 2.0: Use of generative pre-training transformers for political speech generation for Spectral separation of narrow-band signals from multiple sources  Integrating Block chain and Machine learning for Electronic Health Record  As a Spatial Data Mining- A Comprehensive decision support system in agriculture management  A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique			24		11
Computing and a Review of Solutions	126	36	21	Ok	
134 17	130	91			
ok pollution and proposed solution to improve the air quality. For the use in air pollution prediction algorithm of deep learning  A Framework for Meta Search Engine of Private Hospitals Service Cost Recommendation by Using Page Ranking Techniques  142 65 Programming Edit Recommendation throug View Histories and Feedback Systems  145 49 Attendance Monitoring System Using CNN Application of Machine Learning for the Detection of Heart disease  151 93 CREDIT CARD FRAUD DETECTION  Modi 2.0: Use of generative pre-training transformers for political speech generation of Superhammers of political speech generation from multiple sources  180 33 Integrating Block chain and Machine learning for Electronic Health Record  186 46 29 OK New Approach for Root-cause Analysis of Stragglers in Big Data System  200 43 Spatial Data Mining- A Comprehensive decision support system in agriculture management  202 30 OK Ontology Enabled Taxanomy Management  212 87 A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  215 5 Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgric With Selective Harmonic Elimination Pulse Width Modulation Technique	134	17		ok	Analysis of Personality Traits using Natural
Private Hospitals Service Cost Recommendation by Using Page Ranking Techniques	137	20		ok	pollution and proposed solution to improve the air quality. For the use in air pollution prediction algorithm of deep
View Histories and Feedback Systems  Attendance Monitoring System Using CNN  Application of Machine Learning for the Detection of Heart disease  CREDIT CARD FRAUD DETECTION  ADDING  OK Modi 2.0: Use of generative pre-training transformers for political speech generation for spectral separation of narrow-band signals from multiple sources  Integrating Block chain and Machine learnin for Electronic Health Record  186 46 29 OK New Approach for Root-cause Analysis of Stragglers in Big Data System  200 43 Spatial Data Mining- A Comprehensive decision support system in agriculture management  202 30 OK Ontology Enabled Taxanomy Management  A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  215 5 Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	138	41			Private Hospitals Service Cost Recommendation by Using Page Ranking
146 39 24 OK Application of Machine Learning for the Detection of Heart disease 151 93 CREDIT CARD FRAUD DETECTION 166 11 OK Modi 2.0: Use of generative pre-training transformers for political speech generation 174 15 OK Computationally efficient algorithm for spectral separation of narrow-band signals from multiple sources 180 33 Integrating Block chain and Machine learnin for Electronic Health Record 186 46 29 OK New Approach for Root-cause Analysis of Stragglers in Big Data System 200 43 Spatial Data Mining- A Comprehensive decision support system in agriculture management 202 30 OK Ontology Enabled Taxanomy Management 212 87 A Survey On Various Methods Used In Name Entity Recognition For Hindi Language 215 5 Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid 216 41 Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	142	65			Programming Edit Recommendation through View Histories and Feedback Systems
Detection of Heart disease  151 93 CREDIT CARD FRAUD DETECTION  166 11 OK Modi 2.0: Use of generative pre-training transformers for political speech generation transformers for political speech generation of spectral separation of narrow-band signals from multiple sources  180 33 Integrating Block chain and Machine learning for Electronic Health Record  186 46 29 OK New Approach for Root-cause Analysis of Stragglers in Big Data System  200 43 Spatial Data Mining- A Comprehensive decision support system in agriculture management  202 30 OK Ontology Enabled Taxanomy Management  212 87 A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  215 5 Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  216 41 Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	145	49			Attendance Monitoring System Using CNN
166 11 ADDING ALUE TO Formation of transformers for political speech generation transformers for political speech generation of transformers for political speech generation of spectral separation of narrow-band signals from multiple sources  180 33 Integrating Block chain and Machine learnin for Electronic Health Record  186 46 29 OK New Approach for Root-cause Analysis of Stragglers in Big Data System  200 43 Spatial Data Mining- A Comprehensive decision support system in agriculture management  202 30 OK Ontology Enabled Taxanomy Management  212 87 A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  215 5 Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  216 41 Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	146	39	24	ОК	Application of Machine Learning for the
ADDING ALUE TO 1 transformers for political speech generation of transformers for political speech generation of transformers for political speech generation of the spectral separation of stars and Machine learning for Electronic Health Record  200	151	93	OTITUTE OF I	NEODIA.	CREDIT CARD FRAUD DETECTION
spectral separation of narrow-band signals from multiple sources  180 33 Integrating Block chain and Machine learnin for Electronic Health Record  186 46 29 OK New Approach for Root-cause Analysis of Stragglers in Big Data System  200 43 Spatial Data Mining- A Comprehensive decision support system in agriculture management  202 30 OK Ontology Enabled Taxanomy Management  212 87 A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  215 5 Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  216 41 Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	166	मत्याला मरण नाही	ADDING '	OK /ALUE TO E	Modi 2.0: Use of generative pre-training transformers for political speech generation
for Electronic Health Record  186	174	15		ОК	spectral separation of narrow-band signals
Stragglers in Big Data System  200 43 Spatial Data Mining- A Comprehensive decision support system in agriculture management  202 30 OK Ontology Enabled Taxanomy Management  212 87 A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  215 5 Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  216 41 Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	180	33			Integrating Block chain and Machine learning for Electronic Health Record
decision support system in agriculture management  202 30 OK Ontology Enabled Taxanomy Management  212 87 A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  215 5 ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  216 41 Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	186	46	29	OK	1 ''
212 87 A Survey On Various Methods Used In Name Entity Recognition For Hindi Language  215 5 ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  216 41 Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	200	43			decision support system in agriculture
Entity Recognition For Hindi Language  Ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	202	30		ОК	Ontology Enabled Taxanomy Management
215 5 ok Solar Generation Forecasting & Scheduling Using ARMA Model for Microgrid  216 41 Simulation Of Single Phase H-Bridge Inverte With Selective Harmonic Elimination Pulse Width Modulation Technique	212	87			A Survey On Various Methods Used In Named Entity Recognition For Hindi Language
With Selective Harmonic Elimination Pulse Width Modulation Technique	215	5		ok	Solar Generation Forecasting & Scheduling
221 35 28 OK Indian Sign Language Recognition: A Povious	216	41			Simulation Of Single Phase H-Bridge Inverter With Selective Harmonic Elimination Pulse
221 33 1-5 Indian Sign Language Necognition. A Neview	221	35	28	OK	Indian Sign Language Recognition: A Review

223	23		OK	Smart Medication Watch
224	42			Internet Based Resource Sharing Platform development for Agriculture Machinery and tools in Punjab
228	36			Enhanced Road Construction Process with Machine Learning and Block chain Technology
230	84			A Survey of Deep Learning Algorithms and Challenging Issues in Big Data Analytics
244	43			Review on Similar Questions Retrieval for Quora
245	22		ok	Multi Crop Selection Model using Binary Particle Swarm Optimization
249	56			Neural Network
250	26		OK	Natural Language to SQL query conversion using Deep Learning
251	29		OK	Machine Learning algorithms and its applications :A survey
252	27		OK	A Review of Unstructured Data Analysis and Parsing Methods
254	15	AI	OK	Comparative Analysis of methods of Sentiment Analysis
255	27	AI	OK	Twitter Sentiment Analysis Using Machine Learning For Product Evaluation
256	15 IN	STITUTE OF I	NEOKWA.	Frequent Pattern Mining for Sequential Biological Data: A Survey
257	17	DNIDDA	OK	Trustworthy Cloud Service Provider Selection using Genetic Algorithm based Decision Making Method
258	21		ОК	Fuzzy based Multi Criteria Decision Making Methods to Rank Internet Service Providers
264	27		ok	Stopword Identification and Removal Techniques on TC and IR applications: A Survey
268	45			A Study and Analysis of Protein-Protein interaction as Carcinogenic using Deep Learning Techniques
269	78			A Review of Ternary Content Addressable Memory Architectures on FPGAs
275	18		OK	Hindi Verse Class Predictor Using Eager Machine Learning Algorithms
276	40			Witness Statement Recorder
282	28		OK	Student helpline- to raise queries, overcoming stress and for individual analysis
	95			Cross-Domain Ambiguity Detection using

284				Linear Transformation of Word Embedding Spaces
288	55			A Survey of Machine Learning Techniques for Identifying and Classifying Malwares.
290	42			DOCUMENT CLASSIFICATION AND SUMMARIZER USING PROBABILISTIC CLASSIFIER
300	66			Bioinformatics services on cloud-based platform for Genomic data analysis pipelines
302	67			A Survey On Various Methods Used In Named Entity Recognition For Hindi
				Language
303	40			Tweet Sentiment Analysis and Study of Various Approaches and Classification Algorithms
305	34			Music Genre Classication
320	74			ALPHANUMERIC RECOGNITION FOR E- LEARNING
322	8	A	ОК	Study And Analysis Of Medical Data Mining Techniques In Healthcare For Heart Disease Using Hybird Approach
328	43	AI	D D	Comparative Study of Different Machine Learning Techniques for Heart Disease Prediction
330	सत्याला मरण नाही	ADDING '	OK VALUE TO E	Air Quality Prediction using Machine Learning and Deep Learning: A Review
334	33			A Comparative Study of Classification Algorithms for Link Prediction
336	6		OK	Automated H.R. System
337	84			Advanced query optimization using NS2 in Mobile Environment
		Track N	lame : Netwoi	rk and
		C	ommunication	1
14	2 1		ОК	A survey on Memory Frame Work
31	3 1			A Survey On: Privacy preserving Point Of Interest Recommendation Using Decentralized Matrix Factorization
45	3 3			Convolutional Neural Network based Alzheimer's Disease Diagnosis Using Time – Frequency features
62	2 5		ok	Research Methodology On: Blockchain Technology for Protecting the Banking Transactions without using Tokens
65	3 1			Survey On: Privacy preserving Point Of Interest Recommendation Using Decentralized Matrix Factorization

67	3 3	25	ok	Review of Reconfigurable Antennas for Future Wireless Communication
81	3 5	12	ok	Zig Bee Based Wireless Weather Monitoring System for Air pollution and Rainfall monitoring
87	2		ok	New Queuing Technique for Improving Computer Networks QoS Using OPNET
119	2 2		ok	Blockchain, its use-cases in various sectors and potential challenges
140	4 9			Headway And Improvement In Power Quality For Wind Energy System
160	2 9		ОК	Dynamic Spectrum Sensing Method For Mobile Cognitive Radio Ad Hoc Networks
162	2 8		ОК	Performance Evaluation of Routing Protocols under Black Hole Attack in Cognitive Radio Mesh Networks
173	4 8			A Survey of Artificial Neural Network based Spectrum Inference Techniques for Spectrum Occupancy Prediction in Cognitive Radio Networks
177	7 6	Al	55	Digital filter for efficient use of bandwidth
185	र्थे भुक्ति मरण नाही	STITUTE OF I	NFOOKMA VALUE TO E	Gain Enhancement of Dual Feed U-Slot Wideband Circularly Polarized Antenna for S- Band Millimeter Wave Radar Applications
187	4 0			Survey on Soil Classification and Crop production using Machine Learning
191	4 0			A Survey On Energy Harvesting in Wireless Sensor Network
192	4 6			Performance Analysis of Cognitive Radio with Carrier Sense Based Multiple Access Protocol
195	5 8	27	ОК	Qualitative evaluation of Data Collection techniques in Wireless Sensor Networks
203	4 9	24	ОК	Wireless Sensor Networks Security services and protocols
205	3			Land Records Digitization using Blockchain
209	1 5		OK	Optimized Spectrum sensing Techniques for Enhanced Throughput In Cognitive Radio Network
210	4			Triple-band microstrip fed slot antenna with metamaterial unit cell for wireless

	6			Applications
217	5 7			Energy Efficient Routing Protocol Algorithm for Wireless Sensor Networks Using Clustering, Fuzzy Logic and ACO
219	8 8			"Review of cluster head election protocol implementation in randomly deployed Wireless Sensor Network"
222	5 7			SIMULATION AND IMPLEMENTATION OF LOW POWER QPSK ON FPGA
259	3 2			Droop Based Dynamic Load Sharing Approach for Islanded Microgrid
263	2 1		ok	Survey on soil classification and crop production using machine learning
272	59			Online Transaction Fraud Detection using Backlogging on E-Commerce Website
273	50			MACHINE LEARNING:A REVIEW
278	31	AI	SS	A New QoS-Based Routing Protocol for Software-Defined Wireless Sensor Networks
281	गत्याला मरण नाही	ISTITUTE OF I	NFORMAT VALUE TO E	Circularly Polarized Loop Antenna for WLAN Applications
285	34			FPGA Implementation of Physical Unclonable Function
289	26		ОК	Subjectively assessing of Data Collection systems in Wireless Sensor Networks
298	19		ОК	Review Paper on Crack Detection and Monitoring of Bridge.
307	34			Review on Specific Absorption Rate in Human due to Mobile Phone Radiations
308	24		ОК	Overview of Blockchain Technology for Beginners: Introduction, Basic Terminology, Consensus Algorithms and Application
311	23		OK	Trusted framework for online banking in public cloud using multi-factor authentication using Blockchain Framework: An Overview
	30		ОК	Wormhole Attack Detection and Prevention in WSN An Overview

313						
321	61				-	/ Approach to Minimize Attacks in Low Networks
327	85				_	and Implementation of Wireless Network for Environmental Monitoring
331	25		C	DΚ	Spectru	e Learning Approach in Cooperative m Sensing for Cognitive radio k:Survey
332	25		C	DΚ	Spectru	e Learning Approach in Cooperative m Sensing for Cognitive radio k:Survey
340	25		C	DΚ		Method of Smart Communication SoC for Wireless Push System
	I	Track Na	ame : Im		d signal	
5	14	ΛΙ	Proces		OK _	Detection Of Cervical Cancer Through Imaging Using Machine Learning Techniques
9	29				ОК	Signature Verification Based on One Real Signature
13	भत्याला । एण नाही	ADDING	INFO VALUI	RMA I TO E	TION INGINE	A Survey on Detection of Dirty Number Plates
15	68	40				Capturing User Intention to EnhanceImage Retrieval and Re- ranking Efficiency using One Click Image Search
22	34	27		C	OK	A Review: Security Enhancement in Biometric as attack Jammer
28	3 23			C	OK	Lung Cancer Analysis and Diagnosis by Coalition of Photo Metric and Quality Metric Parameters
29	63					Automated system for analysis of soil and plant disease detection for grapes
30	28			C	OK	Sentiment Analysis of Handwritten Documents based on SURF
32	36	12		C	OK	Object detection system for visually impaired
33	6			C	OK	Deep ilearning imethod ito ide-noise ithe imedical iimages
37	47					Quality Analysis of Concrete Using CNN

46	33	33		Convolutional Neural Network based Alzheimer's Disease Diagnosis Using Time – Frequency features
47	33	33		Convolutional Neural Network based Alzheimer's Disease Diagnosis Using Time – Frequency features
57	10		ok	THE USE OF VISUAL PERSEPTION, FOLLOWED DY DETAILING TO ESURE SAFETY IN THE FRAMEWORK OF THE PROJECT «SMART CITY»
60	43	45		Two-stage active contour method for MRI Brain image segmentation
63	32	27	ОК	One-class Classifier
64	66	66		Thyriod Detection using Speech Recognition
70	17		ОК	Role of Image processing for Indian Inscriptions: A Survey
71	53	21	OK	Detection of Autism Spectrum Disorder (ASD) using Machine Learning Techniques: A Review
74	33	21	ОК	Survey on Sanskrit Script Recognition
75	7	AID	ОК	Survey on Devanagari Text Detection in Deep Learning
83	43\STIT	ADDING VALUE	ROKATION I TO ENGINE	Motor Emegery based EEG signal Classification using electrode optimization approch
95	34	35		Design Genetic Algorithm to Increase Amplitude Response of Digital Filter
99	44	43		Implementation On Emotion Recognition by Speech Signal
101	17		OK	Indian Ayurvedic Plant Identification using Multi-organ Image Analytics: Creation of Image Dataset for Indian Medicinal Plant Organs
103	78			Gesture Recognition Using Machine Learning
107	42			Arrhythmia Classification using Feature Ensemble Learning based on Stacked Sparse Autoencoders with GA-SVM Guided Features
109	16		ОК	Comparative Analysis of FOD based Prewitt,Sobel &Laplacian Operators for Edge Detection on Freshwater Fish images
111	42	11	OK	Weed and Crop Classification using

				Super pixel and Machine Learning Classification
124	63			Comparative Study of Motion Amplification Techniques for Video
129	21		OK	A brief study on Augmented Reality(AR) in Education
131	40			Longitudinal Study of Different Face Recognition Techniques for Toddlers
136	32	30	ОК	A SURVEY ON PHOTONICS RADAR TECHNOLOGY
141	49	27	ОК	Classification of Different Techniques in Machine Learning for Detecting Diseases in Plants Using Weka
143	65			Processing of Surface electromyography signal for the detection of Temporomandibular joint disorder: A Review
147	19		ОК	Handwritten Digit Recognition with Feed-Forward MLP and CNN Architectures
149	21	AIS	OK	Comparative Study of Sound Denoising Technique using Wavelet
152	40			Vehicle Tracking with Mask R-CNN
155	43 VSTIT	UTE OF INFOR ADDING VALUE	RMATION TO ENGINE	A Review on Various Techniques Used for Material Identification Using Acoustic Signal Processing
161	50			DEEP COLLABORATIVE LEARNING APPROACH OVER OBJECT RECOGNITION
164	42			Scene Text Recognition Systems for Blind: A Review
165	38			A Review on Face Reenactment Techniques
168	23		OK	Hybrid image inpainting model using optimized DWT and Reproducing Kernal Hillbert Space for removal of damaged portions of old photographs
176	43	43		EEG Based Neurofeedback System for ADHD : A Review
178	42	30	OK	Survey on Sleep Stage Scoring Techniques Using Feature Discovery
181	33			Longitudinal Study of Different Face Recognition Techniques for Toddlers
188	79			Survey on IoT based Machine tools condition analysis With Machine learning

•				
194	18		ОК	Classification of Grape Leaves using KNN and SVM Classifiers
196	43			Personality Traits Recognition for Interview Processes using Verbal and Nonverbal Cues: Literature Survey
204	29		OK	A review Paper : Image Synthesis Implementation for Viewed and Unviewed Sketches
207	11		ОК	Ground-truth mapping with multi- temporal earth observation data in ESA CloudTool box: 2018 Flood event of Kerala, India
208	56			Study of Different Algorithms Involved in Comment generation for Source Code
213	64			A analysis of Instrumentation amplifier and techniques to improve CMRR
214	56			COEFFICIENT ESTIMATES FOR SOME SUBCLASSES OF ANALYTIC AND BI-UNIVALENT FUNCTIONS
220	51	22	ОК	Object Identification using Mobile Visual Search
227	41 INSTIT	UTE OF INFO	RMATION	REVIEW ON MACHINE LEARNING TECHNIQUES FOR STOCK-MARKET FORECASTING
232	(A)	ADDING VALUE	. 10 ENGINE	Integrated management system for plant disease prediction using Artificial Intelligence
233	18		ОК	Detection of alcoholics using EEG and EMD Domain statistical features
240	20		ОК	Development of algorithm for extraction of Fetal from Maternal ECG on benchmark database and prototype development for acquisition
248	30		ОК	Breast Cancer Detection and Classification
253	11		OK	Logic Based Rule Generation from a Trained Artificial Neural Network for Input Data Reconstruction
260	28		OK	Feature based Video Stabilization: Review with a perspective of mobile handheld videos
261	24		ОК	A LEARNING APPROACH FOR OBJECT DETECTION FROM LOW RESOLUTION IMAGE

	-		011	
262	0		ОК	Detection of Alphanumeric Character based on Gesture Using CNN
	43			A Rotation Invariant Descriptor for
267				texture classification with local binary
207				patterns.
	21		ОК	<u>'</u>
270	21		OK	Detection Classification and Cutting
270				of fruits and vegetables using
				Tensorflow Algorithm
274	57			Palmprint Based Authentication
				System Using Convolutional Neural
				Networks
292	17		OK	Balancing of a Rotating Shaft using
				Computed Order Tracking
202	20			·
293	38			Impact of Image Quality on Image
				Classification
	35			Computational Intelligence Based
294				Model for Detection of Disease using
				Chest Radiographs
299	29		ОК	Review Paper on Video Data
				Compression using Discrete Wavelet
				Transform.
306	22		ОК	Marathi Handwritten Words
306	22	$\Lambda \sqcup \subseteq$	OK -	
				Recognition using Deep Learning
400	33			Performance Analysis of Optimization
309	" INSTIT	UTE OF INFOR	RMATION :	Algorithms GA, PSO and ABC based
. सत्याला	ज्या नाही	ADDING VALUE	TOFNGINE	on DWT-SVD watermarking in Open
		MDDING YMLUL	IO LINGINL	CV Python Environment
315	40			Augmented Reality Interior Design
	26		OK	Genetic Algorithm based Approach to
316				Select Suitable Cover Image for Image
				Steganography
317	43			Detection Disease on Plant Leafs
317	13			Using New Structure Algorithm
	60			
	60			A Survey on Leaf disease
323				identification based on ANN,
				Segmentation and related image
				processing algorithms
325	39			Deep Learning Based Image
				Captioning: State-of-The-Art
326				Detection Disease on Plant Leafs
				Using New Structure Algorithm
	25		ОК	Detection Classification and Cutting
225	23			_
335				of fruits and vegetables using Tensor
				flow Algorithm
	66			Hybrid Approach For Real Time
338				Crowd Activity Identification Using
				Segmentation

339	25		OK	Quantitative Restoration of Noisy Colour Texture Segmentation Benchmark Images using State of the Art Algorithm
		Track Name : C	vber security	
21	32	33	,,	Conceptual Methodology of:
69	31	39		ZBLE: Zone Based Efficient Energy Multipath Protocol for Routing in Mobile.
96	17		ОК	An Overview Of Blockchain
100	17		OK	Mechanisms for Source Code Obfuscation in C: Novel Techniques and Implementation
114	70			A Survey paper on Data Mining Classification Techniques for Cardiovascular Disease Prediction
118	19		ОК	Fast Hartley Transform based Elliptic Curve Cryptography for resource constrained devices
133	4	ΔΙς	ОК	Identifying The Usage Of Known Vulnerabilities Components Based On OWASP A9
154	58		PMATION:	Property Registration and Ownership Transfer using Blockchain
156 स्ट्याला	रण नार्वी - 9	ADDING VALUE	TO ENGINE	Study of Blockchain-based Authentication, Authorization and Accounting Mechanisms used in Cryptocurrency
170	59			Survey on Anomaly Detection of IoT Cyberattacks Using Machine Learning
190	26		ОК	A Survey of Intrusion Detection Systems Based on Deep Learning Algorithms
198	15		ОК	KeyDyna : Nextgen Authentication System
211	13		ОК	Automatic Suspicious Activity Detection in Surveillance Videos
243	30		ОК	Generative Network Based Image Encryption
246	56			A Survey on Distinct Applications of Honey Encryption Algorithm
266	31			Survey on anomaly based intrusion detection systems in IoT networks
279	40			Role Based Access Control for Cloud Storage Using Block-Chain Technology
		Track Name	: IOT and	

Track Name : IOT and Automation

### $2^{\mbox{\scriptsize nd}}$ IEEE International Conference on Emerging Smart Computing and Informatics

10	26		ОК	Monitoring Diabetes, its Consequences and Preventive
12	30		ОК	Measures using IoT and Analytic Tools  Dictionary App:- Contrived way to
18	14		OK	Master Vocabulary  A Review Paper on Automatic  Overtaking System for Avoiding
				Accident
25	39	34		Smart Cultivation and Prediction System for Agriculture
35	8		ОК	Micro-content Shortlisting Using Interactive AI Method
38	45			Intrusion Detection Framework for RPL over Internet of Things
42	21		ОК	Internet of Things based Embedded System for Smart Irrigation
77	16		ОК	PROFITABILITY ENHANCEMENT FOR FUEL DELIVERY VEHICLES, USING
				GEOANALYTICS, DATA MINING AND KAFKA STREAMS
78	43	28	ОК	Planar Capacitive Interdigital Sensor
A		<b>DIS</b>	SN	Electrode Design for Gas sensing Mechanism
79	19		ОК	Robust and Lightweight Control
Hernan	INSTIT	UTE OF INFOR	RMATION TO ENGINE	System for IoT Networks: Enabling IoT for the Developing World
82	27	ADDING VALOR	ОК	Monitiring System in smart agriculture
84	64			Bank Marketing Analysis Approach Using Logistic Regression of Machine Learning
88	74			IOT Based Home Automation System For Smart Power Management
92	64	58		Design And Develop A Model For Saline Monitoring System Using IoT
97	13		ОК	Intelligent Vehicle Road Surface Classifier System
98	9		ОК	Integrated Feedback Analysis and Moderation Platform using NLP
106	55			Personalised Healthcare Assistant using Chatbot
108	37			Automatic Bluetooth Controlled Master-Slave Fire Fighting Robots
113	40			Fingerprint Based Secured Voting
116	25	_	ОК	Smartphone Integrated Smart Helmet for Real-time Detection, Prevention

				and Reporting of Accidents.
127	43	29	ОК	Design of Compact Rectenna for RF Energy Harvesting : A Review
132	24		ОК	PLC based colour mixing process using colour code And digital scale
135	47			Cotton Plant Disease Detection of Crop Management Using Deep Learning and IoT Platforms
139	12		ОК	E-VOTING: A SMART TECHNIQUE FOR ONLINE VOTING
148	37			Design and Application of a Secure and Interactive Smart Mirror using IoT
150	53	29	ОК	BIG DATA & HEALTHCARE SYSTEM:A SURVEY
153	12		OK	IoT Based Temperature Monitoring of DC Motor
158	11		ОК	Design of an Automated Agricultural Robot and It's Prime Issues Author: Badri Narayan Mohapatra Show Abstract
159	58	AIS	5 N	IoT Application: Transformer Health Monitoring
167	26 <sub>NSTIT</sub>	UTE OF INFOI	RMATION TO ENGINE	Data Reduction Based on Compression Technique for Big Data in IoT
169	11		ОК	Green house based on IoT and AI for societal benefit
171	53	54		Cognitive Intelligence of Internet of Things in Precision Agriculture Applications
172	25		ОК	A Survey of Internet of Things (IoT) in Agriculture
182	21		ОК	Securing IoT devices in Smart City Enviornments
193	27		ОК	Automatic Irrigation System Based on Internet of Thing
201	70			Fire Monitoring System by Using IoT
206	32			Automatic Geyser Control System Using IOT
218	29		ОК	An analytical study of Open Access Resources for Blockchain and its Applications.
225	20		ОК	Robust Cross-Layer Security Framework For Internet of Things Enabled Wireless Sensor Networks

### $2^{\mbox{\scriptsize nd}}$ IEEE International Conference on Emerging Smart Computing and Informatics

226	28		ОК	Minimization of Risk Using PERT/CPM Techniques
229	86			Experimental Analysis of tension meter on different hacksaw machines
231	23		ok	Optimizing Power Consumption for Solar Powered Rechargeable Lithium Ion (Li-ion) Battery Operated IoT Based Sensor Node Using Wemos D1 Mini
234	94			ADVANCES IN HIGH-PERFORMANCE COOLING SYSTEMS: Review
235	65			Clinical Data Fusion and Machine Learning Techniques for Smart Healthcare
236	38			Need for the Internet of Things Security and Open Research Issues: A review
237	23		OK	IOT Based Health Care Monitoring Kit
238	17		ОК	Low-Cost OpenSource SCADA System for Wireless Industrial Automation
239	24	AIS	<b>В</b> ОК	Internet of Things and Social Media: A review of Literature and Validation from Twitter Analytics
241	36 INSTIT	UTE OF INFORMADDING VALUE	RMATION TO ENGINE	FOG COMPUTING BASED SMART AGRICULTURAL DECISION SUPPORT SYSTEM USING IOTTECHNOLOGY
242	15		OK	A low cost client server based indirect feedback collection and monitoring
				mechanism for exhibits: especially useful for Mobile science exhibition
265	49			A Framework for Internet of Things Applications and Challenges
271	44			Design of PID controller for Non Linear Process
277	30		OK	DATA LOGGER FOR AUTOMATIC WEATHER FORECASTING
283	44			Waste Management Improvement in Cities using IoT
286	17		ОК	NRF based Saline & Health Monitoring System
287	77			IMPLEMENTATION ON RECOGNIZE OBSTRUCTIVE SLEEP APNEA BY USING REGION GROWING SEGMENTATION DURING SLEEP
291	25		ОК	A Survey of Internet of Things (IoT) in Agriculture

			ı	
295	26		ОК	Design and implementation of Compact UWB Antenna with dual band notchedcharacteristics for MIMO
				system.
296	24		OK	Audio De-noising Using Continuous Patch Overlap Separation Techniques
297	33			High-K Gate Dielectric Effects in Nanoscale FINFETs
301	25		ok	Neuroimages for Dignozing Epilepsy :A Review
304	33			Design and Application of a Secure and Interactive Smart Mirror using IoT
310	11		ОК	Demand Based Variable Tariff Meter
312	66			IOT Based Solution for Leaf Disease Prediction
314	9		OK	Design and Development of an Automatic Vacuum Cleaning and Wiping Robot
318	27		ОК	IoT Based E-Hooding in a Smart City
319				A Study on IoT based trigger points in Education system
324	17	<u>AIS</u>	ОК	Design And Implementation Of ASH System: A Review Model
329	23 INSTIT	UTE OF INFOR	OK RMATION TO ENGINE	sTransporter: An Autonomous Robotics System for Collecting Fresh Fruit Crates for the betterment of the Post Harvest Handling Process
333	31			Automated Rubber tree tapping and Rubber milk mixing machine
	Special Session			
1.1	•		OK	
	RK1	12		IOT Based Women Security: A Contemplation
2.2	RK2	17	OK	An introduction of CloudSim simulation tools for modelling and scheduling
3.	RK3	12		A Technical Review Report on Cyber Crimes in India
4.	RK4	18		A Newly Emerging Ontology-Based Approach for Component-Based Software Engineering
5.	RK5	30	OK	Comparison and Performance Evaluation of Software-Defined Networking Controllers
6.	RK6	16	ОК	Big Data and Hadoop: A Study to investigate challenges
7.	HS1	22		An Exploratory Study on Blended Skills Quotient as a pedestal to uphold Automation in Future Jobs

8.	HS2	10	OK	Technology: A fuel for the growth of E- Business for Women Entrepreneurs
9.	HS3	43		Block Chain Technology Adoption for Banking Services in India
10.	HS4			Improving Dysfunctional Employee turnover
11.	HS5			Effective Sales Promotion Strategies For Gaining Competitive Edge And Intensive Growth
12.	AG1	56		Multilevel Coding Scheme with Trellis Codes as Component Code in 5G Scenario
13.	AG2	24	OK	Investigation of Interference Management Mechanism for D2D Communication in Licensed Band Spectrum
14.	AG3	25	OK	Higher Order QAM Schemes in 5G UFMC system
15.	AG4	9	OK	Prediction of Heart Disease Using Artificial Neural Network and Image Processing
16.	AG5	<b>31</b> C	C I	A Critical Survey on Vertical Handoff Algorithms
17.	AG6 INSTIT	UTE OF INFO	RMATION	Load balancing in mmWave communication network under different deployment scenarios
18. भट्याल	भरण नाही AG7	ADDING VALUE 29	TO OKGINI	Capacity aware resource allocation in Millimeter wave micro urban communication network
19.	AG8	21	OK	Prediction of Heart Disease Using Naïve bayes and Image Processing
20.	AG9	37		Analysis of 5G Channel Parameters Using MMWave Channel Simulator NYUSIM
21.	AG10	18	OK	Performance enhancement analysis of FSO system using different amplification strategies
22.	AG11	13	ОК	Reception of weather signals using double cross antenna
23.	AG12			Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems
24.	AG13			Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device (D2D) Communication Device Network
25.	SS1	29	OK	Machine Learning approaches for Nastaliq style Urdu handwritten

				recognition: A
				survey
26.	SS2	35		A Comprehensive review of Nature-
				inspired algorithms for Internet of
				Vehicles
27.	SS3	42		Character Recognition using Machine
				Learning and Deep Learning - A Survey
28.			OK	An approach towards idea plagiarism
	SS4	16		detection with Recurrent neural networks
				and Vector space model
29.	SS5	20	OK	Evolution of VANETS to IoV: Applications
				and Challenges
30.			OK	Computer vision technique for neuro-
	SS6	26		image analysis in neurodegenerative
				diseases: A survey
31.	SS7	29	OK	A CAD tool for breast cancer prediction
				using Naive Bayes
32.	SS8			Human Recognition using Ear based Deep
				Lerning Features
33.			OK	Quantum-dot Cellular Automata: An
	SA1	19		Efficient and Adroit Alternate to CMOS
8	37.12	A I C		Technology
34.	SA2	36		Recent Developments in Quantum-dot
	S/ LE			Cellular Automata: A Review
35.	INSTIT	UTE OF INFO	RMATION	Design of Combiantional Circuits using
• सत्याल इ	SA3	ADDIN54 VALUE	TO FUGINA	3x3 IMG Reversible Gate in QCA for
	3713			Nano-computing Applications
36.	SAS1	17	OK	A Review on Computational Model for
	0.102			Prediction of human Walk
37.				SCSZB: Sensor Congregate Stable Zonal
	SAS2	32		Based Routing Protocol designed for
	JAJZ			Optimal WSN
38.			ОК	An Exploratory Study on Blended Skills
	HS1	22		Quotient as a pedestal to uphold
	1131			Automation in Future Jobs
39.	HS2	10	OK	Technology: A fuel for the growth of E-
	1132	_0	J.,	Business for Women Entrepreneurs
40.	HS3	43		Block Chain Technology Adoption for
	пээ	.5		Banking Services in India
41.				Improving Dysfunctional Employee
'1.	LICA			turnover
42.	HS4			
42.				Effective Sales Promotion Strategies For
	HS5			Gaining Competitive Edge And Intensive
i				Growth
42		F.C		L
43.	AG1	56		Multilevel Coding Scheme with Trellis Codes as Component Code in 5G Scenario

44.  AG2  24  New Stigation of Interference Management Mechanism for D2D Communication in Licensed Band Spectrum  45.  AG3  25  OK Higher Order QAM Schemes in SG UFMC system  46.  AG4  9  OK Prediction of Heart Disease Using Artificial Neural Network and Image Processing  47.  AG5  31  A Critical Survey on Vertical Handoff Algorithms  Load balancing in mmWave communication network under different deployment scenarios  49.  AG7  29  OK Capacity aware resource allocation in Millimeter wave micro urban communication network  50.  AG8  21  OK Prediction of Heart Disease Using Naïve bayes and Image Processing  51.  AG9  37  Analysis of SG Channel Parameters Using MMWave Channel Simulator NYUSIM  52.  AG10  18  OK Performance enhancement analysis of FSO system using different amplification strategies  53.  AG11  13  OK Reception of weather signals using double cross antenna  54.  AG12  OK Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems  Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device Optimization in Device Optimization in Device of Device Optimization in Device Optimi					
45. AG3 25 OK Higher Order QAM Schemes in 5G UFMC system  46. AG4 9 OK Prediction of Heart Disease Using Artificial Neural Network and Image Processing Artificial Neural Network and Image Processing Actificial Survey on Vertical Handoff Algorithms  48. AG6 37 ACritical Survey on Vertical Handoff Algorithms  49. AG7 29 OK Capacity aware resource allocation in Millimeter wave micro urban communication network under different deployment scenarios  50. AG8 21 OK Prediction of Heart Disease Using Naïve bayes and Image Processing Millimeter wave micro urban communication network  51. AG9 37 Analysis of 5G Channel Parameters Using Millimeter wave micro urban communication network  52. AG10 18 OK Prediction of Heart Disease Using Naïve bayes and Image Processing Millimeter wave micro urban communication network  52. AG10 18 OK Prediction of Heart Disease Using Naïve bayes and Image Processing Millimeter wave micro urban communication network  53. AG11 11 USINFU MOKUN Reception of weather signals using Millimeter wave micro urban communication network of weather signals using OSTBC4 Space Time Encoded Milmo Systems  53. AG11 11 USINFU MOKUN Reception of weather signals using OSTBC4 Space Time Encoded Milmo Systems  54. AG12 OK Efficient Image Transmission using OSTBC4 Space Time Encoded Milmo Systems  55. AG13 OK Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A survey  56. SS1 29 OK Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A survey  57. SS2 35 A Comprehensive review of Nature-inspired algorithms for Internet of Vehicles  58. SS3 42 Character Recognition using Machine Learning and Deep Learning - A Survey  59. OK An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	44.	AG2	24	OK	Management Mechanism for D2D Communication in Licensed Band
Artificial Neural Network and Image Processing  47. AG5 31 A Critical Survey on Vertical Handoff Algorithms  48. AG6 37 Load balancing in mmWave communication network under different deployment scenarios  49. AG7 29 OK Capacity aware resource allocation in Millimeter wave micro urban communication network  50. AG8 21 OK Prediction of Heart Disease Using Naïve bayes and Image Processing  51. AG9 37 Analysis of 5G Channel Parameters Using MMWave Channel Simulator NYUSIM  52. AG10 18 OK Performance enhancement analysis of FSO system using different amplification strategies  53. AG11 11 USINFU NOK IN Reception of weather signals using double cross antenna  54. AG12 OK Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems  Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device Optimization in Device (DZD) Communication Device Network  56. SS1 29 OK Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A survey  57. SS2 35 A Comprehensive review of Nature-inspired algorithms for Internet of Vehicles  58. SS3 42 Character Recognition using Machine Learning and Deep Learning - A Survey  59. OK An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	45.	AG3	25	OK	Higher Order QAM Schemes in 5G UFMC
Algorithms  Algorithms  Load balancing in mmWave communication network under different deployment scenarios  49.  AG7  29  OK  Capacity aware resource allocation in Millimeter wave micro urban communication network  50.  AG8  21  OK  Prediction of Heart Disease Using Naïve bayes and Image Processing  Analysis of \$G\$ Channel Parameters Using MMWave Channel Simulator NYUSIM  52.  AG9  37  Analysis of \$G\$ Channel Parameters Using MMWave Channel Simulator NYUSIM  Performance enhancement analysis of \$F\$O\$ system using different amplification strategies  53.  AG11  AG12  OK  Efficient Image Transmission using OSTBC4 Space Time Encoded MilMO Systems  55.  AG33  AG413  AG413  OK  Efficient Image Transmission using OSTBC4 Space Time Encoded MilMO Systems  Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device Optimization in Device (D2D) Communication Device Network  56.  SS1  29  OK  Machine Learning approaches for Nastalig style Urdu handwritten recognition: A survey  57.  SS2  35  A Comprehensive review of Nature-inspired algorithms for Internet of Vehicles  58.  SS3  42  Character Recognition using Machine Learning and Deep Learning - A Survey  59.  OK  An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	46.	AG4	9	ОК	Artificial Neural Network and Image
49.  AG6  49.  AG7  29  OK  Capacity aware resource allocation in Millimeter wave micro urban communication network  50.  AG8  21  OK  Prediction of Heart Disease Using Naïve bayes and image Processing  51.  AG9  37  Analysis of 5G Channel Parameters Using Millimeter wave micro urban communication network  52.  AG10  18  OK  Performance enhancement analysis of FSO system using different amplification strategies  53.  AG11  OK  Performance enhancement analysis of FSO system using different amplification strategies  53.  AG11  OK  Performance enhancement analysis of FSO system using different amplification strategies  65.  AG12  OK  Efficient Image Transmission using  OSTBC4 Space Time Encoded MIMO Systems  55.  AG33  AG13  OK  Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device optimization in Device Network  56.  SS1  29  OK  Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A survey  57.  SS2  35  A Comprehensive review of Natureinspired algorithms for Internet of Vehicles  58.  SS3  42  Character Recognition using Machine Learning and Deep Learning - A Survey  59.  OK  An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	47.	AG5	31		
AG7 29 Millimeter wave micro urban communication network  50. AG8 21 OK Prediction of Heart Disease Using Naïve bayes and Image Processing  51. AG9 37 Analysis of 5G Channel Parameters Using MMWave Channel Simulator NYUSIM  52. AG10 18 OK Performance enhancement analysis of FSO system using different amplification strategies  53. AG11 JIE U13 NFU MAOK UN Reception of weather signals using double cross antenna  54. AG12 OK Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems  55. AG13 AG31 AG43 AG43 AG44 AG41 AG44 AG41 AG44 AG41 AG44 AG41 AG44 AG44	48.	AG6	37		communication network under different
51. AG9 37 Analysis of 5G Channel Parameters Using MMWave Channel Simulator NYUSIM  52. AG10 18 OK Performance enhancement analysis of FSO system using different amplification strategies  53. AG11 STILL U13 INPU M AOK UN Reception of weather signals using double cross antenna  54. AG12 OK Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems  55. Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device Optimization in Device (D2D) Communication Device Network  56. SS1 29 OK Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A survey  57. SS2 35 A Comprehensive review of Nature-inspired algorithms for Internet of Vehicles  58. SS3 42 Character Recognition using Machine Learning and Deep Learning - A Survey  59. OK An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	49.	AG7	29	ОК	Millimeter wave micro urban
MMWave Channel Simulator NYUSIM  52.  AG10  18  OK  Performance enhancement analysis of FSO system using different amplification strategies  53.  AG11  OK  Efficient Image Transmission using double cross antenna  OK  Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems  55.  AG13  AG13  AG13  OK  Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems  Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device - to -Device (D2D) Communication Device Network  56.  SS1  29  OK  Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A survey  57.  SS2  35  A Comprehensive review of Nature-inspired algorithms for Internet of Vehicles  58.  SS3  42  Character Recognition using Machine Learning and Deep Learning - A Survey  59.  OK  An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	50.	AG8	21	OK	<del>_</del>
AG10  18  FSO system using different amplification strategies  53.  AG11  AG12  OK  Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems  Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device Optimization in Device Network  56.  SS1  29  OK  Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A survey  57.  SS2  35  A Comprehensive review of Nature-inspired algorithms for Internet of Vehicles  58.  SS3  42  Character Recognition using Machine Learning and Deep Learning - A Survey  59.  SS4  16  OK  An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	51.	AG9	37		•
54. AG12  OK Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems  55. AG13  AG14  AG15  AG15  AG15  AG15  AG16  AG16  AG17  AG17  AG18  AG18  AG18  AG18  AG18  AG18  AG18  AG19  AG19	52.	AG10	18	ОК	FSO system using different amplification
OSTBC4 Space Time Encoded MIMO Systems  55.  Adaptive Robust Beamforming Approach for Power Optimization in Device Optimization in Device to -Device (D2D) Communication Device Network  56.  SS1  29  OK  Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A survey  57.  SS2  35  A Comprehensive review of Nature- inspired algorithms for Internet of Vehicles  58.  SS3  42  Character Recognition using Machine Learning and Deep Learning - A Survey  59.  OK  An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	53.	मरण नार्थे - AG11 STIT	ADDING VALU	RMAOKON TO ENGIN	
AG13  for Power Optimization in Device (D2D) Communication Device Network  56.  SS1  29  OK  Machine Learning approaches for Nastaliq style Urdu handwritten recognition: A  survey  57.  SS2  35  A Comprehensive review of Nature-inspired algorithms for Internet of Vehicles  58.  SS3  42  Character Recognition using Machine Learning and Deep Learning - A Survey  59.  OK  An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	54.	AG12		ОК	OSTBC4 Space Time Encoded MIMO
Nastaliq style Urdu handwritten recognition: A survey  57. SS2 35 A Comprehensive review of Nature- inspired algorithms for Internet of Vehicles  58. SS3 42 Character Recognition using Machine Learning and Deep Learning - A Survey  59. OK An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	55.	AG13			for Power Optimization in Device Optimization in Device -to -Device (D2D)
57. SS2 35 A Comprehensive review of Nature- inspired algorithms for Internet of Vehicles  58. SS3 42 Character Recognition using Machine Learning and Deep Learning - A Survey  59. OK An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model	56.	SS1	29	OK	Nastaliq style Urdu handwritten recognition: A
inspired algorithms for Internet of Vehicles  58. SS3 42 Character Recognition using Machine Learning and Deep Learning - A Survey  59. OK An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model					survey
59. OK An approach towards idea plagiarism detection with Recurrent neural networks and Vector space model		SS2			inspired algorithms for Internet of
SS4  16  detection with Recurrent neural networks and Vector space model	58.	SS3	42		
60. SS5 20 OK Evolution of VANETS to IoV: Applications	59.	SS4	16	OK	An approach towards idea plagiarism detection with Recurrent neural networks
<u> </u>	60.	SS5	20	OK	Evolution of VANETS to IoV: Applications

				-
				and Challenges
61.	SS6	26	OK	Computer vision technique for neuro- image analysis in neurodegenerative diseases: A survey
62.	SS7	29	OK	A CAD tool for breast cancer prediction using Naive Bayes
63.	SS8			Human Recognition using Ear based Deep Lerning Features
64.	SA1	19	OK	Quantum-dot Cellular Automata: An Efficient and Adroit Alternate to CMOS Technology
65.	SA2	36		Recent Developments in Quantum-dot Cellular Automata: A Review
66.	SA3	54		Design of Combinational Circuits using 3x3 IMG Reversible Gate in QCA for Nano-computing Applications
67.	SAS1	17	OK	A Review on Computational Model for Prediction of human Walk
68.	SAS2	32		SCSZB: Sensor Congregate Stable Zonal Based Routing Protocol designed for Optimal WSN
69.	SAS3 INSTIT	A 1 5  UTE OF INFOI  ADDING VALUE	S N RMATION TO ENGINE	Energy Efficient HeterogeneousRoutingProtocols for cluster based Heterogenous Wireless Sensor Network (HWSN)— Strategiesand Challenges: A Review
70.	SAS4			Waste Management of Residential Society using Machine Learning and IoT Approach
71.	SAS5	30	OK	Performance Assessment of DSDV and AODV routing protocols in Mobile Adhoc Networks with Focus on Node Density and Routing overhead
72.	SAS6	38		An Overview of Simulaors and Data Sets used in DTN Rouing
73.	SAS7			An Investigation on IoT-based Applications in Healthcare
74.	SAS8			Artificial Intelligence and its Application in Various Fields
75.	SAS9	66		A Review On Security in Wireless Sensor Network
76.	SAS1 0			MULTIMODAL BIOMETRIC AUTHENTICATION SYSTEM USING DEEP LEARNING METHOD
77.	SAS1 1			Sign Language identification using Hand Gestures

78.	JD1	13	OK	MACHINE LEARNING BASED DdoS DETECTION
79.	JD2	83		Machine-to-Machine Measurement (M3) Framework for web of things
80.	JD3	33		SEVEN-LEVEL INVERTER BASED PHOTOVOLTAIC GENERATION USING ANFIS OPTIMIZATION TECHNIQUE
81.	JD4	18	OK	Predicting students academic performance using an improved random forest
				classifier
82.	JD5	25	OK	A CONTEMPORARY REVIEW ON MACHINE LEARNING MODELS FOR ARRHYTHMIA LEARNING MODELS FOR ARRHYTHMIA
83.	JD6	15	OK	Precision Farming and Predictive Analytics in Agriculture Context: A Review
84.	JD7	10	OK	Benefits, Risks and Challenges: AI in Healthcare
85.	JD8	A IS	S	Healthcare Biometrics Security and Regulations: Biometrics Data Security and Regulations Governing PHI and HIPAA Act for Patient Privacy
86.	मरण नाही JD9	ADDIN4 VALUE	RMA <sub>OK</sub> UN I TO ENGINE	Al in Video Analysis, Production and Streaming Delivery
87.	JD10	20	OK	Multi-objective optimizationof high- speed end milling on Al6061/3% RHA/ 6% TiC reinforced hybrid composite using
00		25	01/	Taguchi coupledGRA
88.	JD11	25	OK	Four-Wave Mixing Effect and Its Security Implications on a WDM System
89.	JD12	26	OK	Performance improvement of Cryo treated WC-Co insert turning of AISI 1018 steel using Multi objective optimization
90.	JD13	24	OK	A PROBE INTO THE PARALLEL ELEMENTSOF DIABETES MELLITUS AND ALZHEIMER'S DISEASE
91.	JD14	16	OK	Vehicle Navigation Protocol in Real-Time Fleet Management
92.	JD15	27	OK	AN EFFICIENT SURVEY ON ENERGY CONSERVATION SYSTEM WITH VIDEO SURVEILLANCE
93.	JD16	17	ОК	QoS parameters for Comparison and Performance Evaluation of Reactive

### $2^{\mbox{\scriptsize nd}}$ IEEE International Conference on Emerging Smart Computing and Informatics

Т			l	_
				protocols
94.	JD17	20	ОК	Variational Iteration Method to Deal with Time Delay Differential Equations under Uncertainty Conditions
95.	JD18	30	OK	FT Coded Algorithm for Rerouting in Self- Healing WSN
96.	JD19	55		Improving lifetime of IOT network by improvising routing protocol on low power and lossy network by using contiki cooja tool
97.	JD20	24	OK	Radio Frequency Based Smart Farming:The Future of Agriculture
98.	JD21	22	OK	Appearance detection from noisy and color images using color, shape and symmetry-Based cost functions
99.	JD22	22	ОК	Four-Wave Mixing Effect and Its Security Implications on a WDM System
100.	JD23	24	OK	Improving lifetime of IOT network by improvising routing protocol on low power
4		AID	DIV	and lossy network by using contiki cooja tool
101.	JD24 STIT	UTE O5 INFO	OK RMATION TO ENGINE	Variational Iteration Method to Deal with Time Delay Differential Equations under Uncertainty Conditions
102.	JD25	33		SEVEN-LEVEL INVERTER BASED PHOTOVOLTAIC GENERATION USING ANFIS OPTIMIZATION TECHNIQUE
103.	JD26			Survey on State Of Art IOT Protocols and Applications
104.		37		A survey on wireless body area networks in the field of Healthcare
105.		22	ОК	A Technical Analysis of Digital Watermarking Process and Techniques
106.		13	OK	Automation Vehicle Survey
107.		39		Involvement of Cloud computing and IoT in the Field of Health Care
108.		17	OK	An overview of social media and sentiment analysis
109.		28	OK	A Fundamental study of Digital Image Watermarking
110.		66		Programming Edit Recommendation through View Histories and Feedback Systems.

#### **ANNEXURE-III**

#### **Conference Broucher**

#### Chief Patron

Shrimant Shahu Chhatrapati Maharaj Kolhapu

Shri Sambhajiraje Chhatrapati

Shri Malojiraje Chhatrapati

Shri Suresh Protop Shinde

(Hon, Joint Secretary)

Shri Ajay Uttamrao Patil

Shri Vishwas Bajirao Patil

airman, Governing Council) Adv Bhagwanrao Baburao Salunkhe Chairman, Managing Committee)

Mr. Dinanath Kholkar

Chair, IEEE Pune Section) Mr. Girish Khilari

(Vice Chair, IEEE, Pune Section)

#### **General Chair**

Dr. P. B. Mane, Principal, AISSMS IOIT, Pune Dr. Rajesh Ingale, Chair, IEEE Pune section

#### Organizing Chair

Dr. Suresh Limkar, AISSMICIT, Pune Prof. Mandar Khurjekar, Chair, Conference IEEE Pune section

#### **Advisory Committee**

ner Buchade, Secretary, IEEE Pune Sector Dr. D. M. Tagare, Ex-Chair, IEEE Pune Section

Dr. D. J. Doke , Ex-Chair, IEEE Pune Section Dr. G. S. Mare, Ex-Chair, IEEE Pune Section

Dr. P. K. Sinha, Ex-Chair, IEEE Pune Section

Dr. Pratapsinh Kakaso Desai, President, ISTE

Dr. B. B. Ahuja, Director, COEP, Pune

Dr. J. W. Bakal, Chairman, IETE

Dr. L. M. Waghmare, Dean, S&T, SRTMU,

Dr. Rajashree Jain, Treasurer, IEEE Pune

Dr. Anil Tavildar, Chair, IEEE Pune (SPC)

Dr. Mukhopadhyay, Director, NHTM, Mumbai

Dr. D.S. Bormane, Chairman, BoS (E&TC) SPPU Dr. R.K. Karnat, Professor, Shivaji University Kolhapur

Dr. S.R. Gengaje, Associate Dean, PAH Solapur University

Mr. Abhay Bansod, Director, Emerson, Pune Prof. Akshaya Nayak, IISc Bangalore.

Mr. T. M. Gunaraja, President, IEI

Mr. Dilip Kumbhat, President ISLE Mr. Ravi Makanikar, President ISA

#### Technical Programme Committee

Dr.Celia Shahnaz, Chair, IEEE Bangladesh Section

Dr. Ahmed Eingar, Beny-Suef University, Egypt

Dr. Osamah Ibrahim Khalaf, Baghdad, Iraq Dr. Chaida Muttashar Abdulsahib, Iraq

Dr. Swagtam Das, ISI, Kolkata

Dr. Nazilla, Robert Gordon University, UK

Dr. Chuan-Ming Liu, Taiwan

Dr. Sheng-lung Peng, Talwan

Dr. Abdelrahman Alzoubaidi, Jordan

Dr. Yogesh Hote, IIT, Roorkee

Dr. K. Shridhar, BEC, Bagalkot, Kamataka

Dr. S. Neduncheliyan, Chennai

Dr. R. K. Jha, Jammu

Dr. P. Laxminarayana, Hyderabad

Dr. Shayam Akashe, Gwallor

Dr. M.S. Sutaone, COEP, Pune

Dr. S. B. Somani, Chair, IEEE Pune section (CC)

Dr. Bhanet Chaudhary, MIT, Pune.

Dr. U.B. Shinde, Ex-Dean Dr. BAMU, Aumagabad

Dr. R. S.Holambe, Professor, SGGS E&T, Nanded

Dr. Uhas Shiurkar, DIOE & MS, Aurangabad

Dr. S. M. Jagade, Principal, STBCE, Tuljapur Dr. R. R. Deshmukh, Dr. BAMU, Aurangabad

Mrs. Lekha Phijo, Chair, WE Affinity, IEEE Pune

Dr. Samudravijay, TIFR, Mumbai

Dr. S. P. Wjayaragavan, Kanchchipuram

Dr. Varsha Patil, Chairman, BoS (Comp) SPPU

Dr. Kavita Ashani, Goa

Dr. Ganesh Sable, MIT, Auranagbad

Dr. Nalini Chidemberam, Chenna

Dr. Sidhharth Ladhhake, Signa COET, Amravati

Dr. Shashank Joshi, Bharti Vidyapeeth, Pune

Dr. Sanika Panwar, AISSMS IOIT, Pune

Dr. Ajaykumar Jena, Bhubaneswar

Dr. Manoj Ranjan Mishra, Bhubaneswar

Dr. P. M. Patil, JSPM, Narhe

Dr. D.R. Shende, Member BoS (Instru) Pune

Dr. V. K. Bairagi, AJSSMS IOIT, Pune

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

#### Finance Chair

Dr. M. P. Sardey, AJSSMS (OIT, Pune

### **Publicity Chair**

Dr. S. B. Dhonde, AISSMS KIT, Pune

### **Publication Chair**

Dr. K. S. Wagh, AISSMS IOIT, Pune Dr. Neha Sharma Chair Newsletter EEE Pune Prof. R. A. Jamadar, AISSMS IOIT, Pune Dr. Pramod Mushrif, AISSMS IOIT, Pune Dr. Sanjay Kurkute, AISSMS IOIT, Pune Prof. D. A. Itole, AISSMS IOIT, Pune

#### Registration

Dr. S. N. Zaware, AISSMS IOIT, Pune

#### HAC Track Chair.

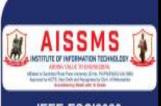
Prof. H. D. Shinde, AJSSMS (OIT, Pune) Mr. Jagdish Chaudhari, Pune

#### Contact Person

Dr. V. K. Bairagi (Technical Query) Mobile: +91 94210 16118 Email: vkbairagi@alsamsiot.org

Dr. S. V. Limkar (For Other Query) Mobile: +91 98233 28686 Email: sureshimkar@aissmsiolt.org

All India Shri Shivaji Memorial Society's Institute of Information Technology Kennedy Road, Near RTO, Pune 01



### IEEE-ESCI2020

2" IEEE INTERNATIONAL CONFERENCE

ESCI 2020 (12° - 14° March 2020)

Sponsored By





MISSING DIT

#### About Institute

All India Shri Shivaji Memorial Society was founded by Late Chhatrapati Shri Shahu Maharaj in 1917. The society is dedicated to the noble cause of military, general, technical and management education in India. Twenty Institutions are under the ambit of the society. The society management is very pragmatic and progressive. The All India Shri Shivaji Memorial Society's Institute of Information Technology established in 1999, is a self financing Institution and is affiliated to the S. P. Pune University. It is approved by the AICTE, New Delhi and the Director of Technical Education. Government of Maharashira. The institution is accredited by NAAC with A grade. The institution has six branches of engineering, of which four branches are permanently affiliated to S. P. Pune University and three branches namely Electrical Engineering, Electronics Engineering and Instrumentation Engineering are accredited by NBA. The institute has well qualified and dedicated staff with good infrastructure facilities for UG and PG courses in the form of well equipped laboratories in all the branches. The Institute also has Research center for Electronics and Telecommunication Engineering. The institution has been awarded by ISTE as National level best private engineering college for 2015. It has also received "Engineering Education Excellence Award 2015' from Indo Global Chamber of Commerce Industries and Agriculture. The institute is recognized by AICTE for 'Best practices in Education" in 2018. The institute is ranked 180 by "India Today" and 85 by "Times Engineering Survey' in 2019.



#### About the Conference

The IEEE International Conference on Emerging 8mart Computing and Informatics (ESCI-2020) is

the platform where academics and industry researchers present their latest algorithms, models and technologies and explore new trends and ideas. on smart computing and informatics. The aim of this conference is to provide an affect platform for emerging trends in smart computing, networking, communication, signal and image processing, cyber security and IOT. The key intention is to provide opportunity for the global participants to share their ideas and experiences in person with their peers expected to join from different parts of the world. In addition to this, the gathering will help the delegates to establish research environment as well as to find the international linkage for future collaboration in their career path. The conference focuses on various modernization and innovation paradigms that may be applied to present practical and creative solutions to diverse issues in society, industry and environment.

#### About Pune (India)

Pune is the second largest city in Indian state of Maharashtra and is considered as the cultural capital of Mahaneshtre. It is also known as the 'Oxford of the East' due to the presence of several well-known educational institutions. The city has emerged as a major educational hub in recent decades, with nearly half of the total international students in the country studying in Pune. Research. institutes education, management and training attract students and professionals from India and overseas. Several colleges in Pune have student exchange programmes with other countries. Pune is also a home to clenty of IT Parks making it major IT hub in India. The city portrays the rich Maratha culture in its hertage. Get to know more about it by visiting the forts, temples and caves here. Pune is blessed with several places to visit. It is known for the grand Aga Khan Palace, built in 1892. Pune international Airport is connected to all major Indian. cities and some of international hubs.

#### Call for Paper

The conference proceeding invites academics and industry researchers for publication of papers explaining literature invites, problem statement, methodologies with appropriate results. The selected papers will be sent to the experts for review. Acceptance will be based on significant and innovative content, originally and unpublished. quality work. Accepted and presented papers will be published in IEEE Explore digital library. The Conference also invites special topics, tools and applications in multideciplinary areas with workshops, futbrial sessions by expert academicians and professionals.

Highlights: To imbbe the research culture in undergraduate students, the conference invites the undergraduate students to publish original innovative and quality research work. The accepted and presented papers will be published in conference proceeding.

The conference invites the papers in the following domains / tracks but not limited to:

#### Track 1: Smart Computing

- Artificial intelligence and machine learning
- Data mining and text mining
- Big data analytics and metrics
- Cloud computing, mobile computing
- NLP and machine translation
- Parallel and distributed algorithms
- Pattern recognition and analysis

#### Track 2: Network and Communication

- Cognitive radio and cognitive networks
- Communication architecture
- Control systems and applications
- Real time networking
   Optical networks and systems protocols and
- standards
- Satellite and space communications
- Software defined radio

#### Track 3: Image and signal processing

- Image and video processing
- Object recognition, speech processing

#### Track 4: Cyber Security

- Access control, web filters and firewalls
- Intrusion detection and incident response
- Vulnerability assessment and mitigating attack
- Social engineering and phishing attacks
- Information security management and governance, Software security

#### Track 5: IOT and Automation

- Industrial networks and automation
- Cognitive approach for robotics
- Mobile robots and industrial autonomous systems. Human machine interface
- Building automation

### Important Dates

Submission of Regular / SS paper : Nov 21, 2019 Notification of Acceptance : Dec 30, 2019 Camera Ready Submission : Jan 06, 2020

#### IEEE Conference Link:

https://conferences.ieee.org/conferences\_e vents/conferences/conferencedetails/48226

#### Paper Submission Link:

https://cmt3.research.microsoft.com/ESCI

#### Conference website:

https://aissmsioit.org/esci2020/

Email Id: esci2020@aissmsioit.org

#### Registration Fees

Category	Indian	Foreig
IEEE Member	NR 4000)	\$100
Non IEEE Member	INR 50001	\$150
IEEE Student Member	INR 30001	\$100
Non-EEE Student Member	NR 4000/-	\$150
Porticipants (Non Presenter)	NR 1000/-	\$60
Doctorial Consortium	NR 10004	360

#### UG Track

# Category Indian IEEE Student Member INR 1000(Max. 4 students) Non IEEE Student Member INR 1500(Max. 4 students) Non IEEE Student Member INR 1500(Max. 4 students) Accompanying Extra Author INR 500Tutorial INR 200-

#### Doctoral Consortium

The goal of the Doctoral Consortum is to create an opportunity for Ph.D. students to test their research ideas, present their current progress and future plans, and receive constructive criticism and insights related to their future work and career perspectives. A mentor will be assigned to each student to provide individual feedback, in addition, students or research scholar will have the opportunity to present an overview of their research plan during a special poster session. Prospective participants are encouraged to submit their application by January 15°, 2020.



## **ESCI-2020**

"Teamwork is the ability to work together toward a common vision. The ability to direct individual accomplishments toward organizational objectives. It is the fuel that allows common people to attain uncommon results." – Andrew Carnegie.

Prepared by-Mrs.H.B.Magar

Media & Publication Coordinator