Sinhgad Technical Education Society's



NBN SINHGAD TECHNICAL INSTITUTES CAMPUS

Approved by AICTE, New Delhi, Recognized by Government of Maharashtra & Affiliated to University of Pune (ID No. - PU/PN/Engg/432/2012)

S. No. 10/1, Ambegaon (Budruk), Off Sinhgad Road, Pune 411041

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 Email: nbnssoe@sinhgad.edu / nbnssoms@sinhgad.edu / nbnssocs@sinhgad.edu

3.2: Innovation Ecosystem

3.2.1: Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Annual National Conference (National level Cognitive Conferences) Organized from 2019-20 Following table summarize list of few sample supporting document.

Sr.No	Year of Conference Page N		
1	National Conference on Cognitive Computing 2022		
2	National Conference on Cognitive Computing 2021 6		
3	Global Conference on Next Generation Information	12	
	Communication Technologies-2020		

❖ National Conference on Cognitive Computing (NCCC- 2022):

Online 2nd National Conference on Cognitive Computing (NCCC-2022) June 02-03, 2022 Sinhgad Technical Education Society ComSoc NBN Sinhgad Technical Institutes Campus S. No.: 10/1, Ambegaon (BK). Pune - 411041 Ph. Nos.: 020 - 24355042 Sinhgad Institutes

It is rightly said that "Where there is vision, there is direction". Sinhgad Institutes dream stems from the great Vision of our Founder President, Hon'ble Prof. M. N. Navale, which is to see each one of you emerge as a creator, a leader and an innovator

NBN Sinhgad Technical Institutes Campus (NBNSTIC) established in the year 2011 under the umbrella of Sinhgad Technical Education Society (STES), provides four years UG program in Mechanical Engg., Electrical Engg., Electronics & Telecommunication Engg., Computer Engg., Information Technology and two-years MBA program. The main focus is on developing excellent academic achievement, social mobility and character/mindset development.

CONFERENCE INFORMATION

Conference focus will be on latest trends on smart computing, new trends in smart city, robotics, Artificial Intelligence(AI), Internet of Things (IoT), Augmented Reality and Virtual Reality, e-Vehicles, security and surveillance, smart manufacturing and industrial automation. This Competition will provide a platform for prospective engineers to show- case their technical work in the field of engineering and management.

CONFERENCE TRACKS AND AREA

- * Smart Technology: IoT/ Smart Vehicle, Smart Communication, Robotics, web & mobile application and cloud computing
- * Green Technology: Renewable Energy, Smart Agriculture, waste management, clean water management, Smart City and sustainable environment
- Smart Computing: AI/ML, Data Science and Analytics and Image Processing
- Security and Surveillance: Cyber Security, Block chain and Video Surveillance
 Interdisciplinary Aspects: Industry 4.0,E-Vehicles, Mechatronics, Smart Factory, Smart Sensors, Healthcare and biomedical, Financial Management, Recent trends in marketing and HR

IMPORTANT DATES

	Particulars	Date	Particulars	Date
1.	Extended date of full paper submission:	May25, 2022	2. Notification of acceptance	May 29, 2022
3.	Registration & final paper submission	May 28, 2022	Conference Date:	June 02-03, 2022

CONFERENCE GENERAL CHAIR

Dr. Shivprasad P. Patil, Principal & Director

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Prof. Shamika Jog- Electronics & Telecomm. Engg.	Prof. Aparna Kare- Electrical Engg.
Prof. Wasudeo Rahane-Information Technology Engg.	Dr. Meeta Meshram – MBA Dept.

REGISTRATION DETAILS

Conference Registration Link: https://www.easychair.org/my/conference?conf=nccc2022

Link for downloading the paper format:

 $\underline{https://docs.google.com/document/d/1nhzHTqb8m7HqDZbBefMVfVSTAo-linearity.}$

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Name of the Account: NBN Sinhgad Technical Institutes Campus Name of the Bank: Indian Bank Branch: Vadgaon (Bk), Pune IFSC Code: IDIB000V104 Account Number: 6675755279 Type of Account: Current

Publication Charges: -500/- Rs. (Per Paper)

- · Accepted and presented papers will be considered for publication in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) having an ISSN: 2581-9429).
- Maximum 06 Authors allowed per paper
- . For Scopus / Web of Science the authors need to pay additional fee as per the requirement. Paper should be as per format.

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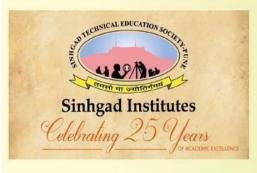
Scientific Journal Impact Factor www.sjifactor.com

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

ISSN No.: 2581-9429

Proceeding of National Conference on Cognitive Computing (NCCC-2022) 2nd - 3rd June 2022





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NBN Sinhgad School of Engineering and
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Event Report of NCCC-22:2nd National Conference on **Cognitive Computing**

Sr.No.	Activity	Time
1	Registration and Abstract Submission	10/05/2022
2	Full Paper Submission	13/05/2022
3	Acceptance / Notification	17/05/2022
4	Payment and Final Paper Submission	20/05/2022
5	Conference Dates	02 nd and 03 rd June 2022

NAME OF EVENT: - 2nd National Conference on Cognitive Computing-NCCC2022

EVENT TYPE: - Online Conference

STAFF COORDINATOR: - Mr. Ravikant K. Nanwatkar STUDENTS COORDINATOR: - Miss. Trupti Pawale

The event "2nd National Conference on Cognitive Computing-NCCC2022" organized by STES's NBNSSOE, Ambegaon, Pune-41 was started at 09:00 AM on 02/06/2022 and end on 03/06/2022. The event was organized at Online. Total no papers registered were 153 with total no of participants more than 500.

EVENT DESCRIPTION

National conference on cognitive computing journey starts from AY 2020-21 with NCCC-21, in view to encourage student for research work and publication ethics. This conference in held in publication partnership with International Journal of Advanced Research in Science, Communication and Technology (IJARSCT). It was organized for all engineering as well as MBA students and faculties. Its starts with introductory speech by Prof. D. H. Burande, HOD (Mech. Dept.) and Conference coordinator with Further perspective views and guidance speech from all heads of Department. Welcome speech by Dr. M. M. Jadhav, HOD(ENTC Dept.) and encouraging speech towards betterment of conference was given by Dr. S. P. Patil, Principal (NBNSSOE, Ambegaon, Pune-41). Day 1 starts with Technical Talk by Dr. Rao Saheb Shinde on 'Industry Expectation from Researchers", Keynote Speech by Mr. Neeraj Kumar on Industry 4.0 and Vote of thanks by Prof. Yogesh Jadhav. Day 2 starts with Technical Talk by Mrs. Uma Ganesh Natrajan on 'Industry Expectation about Future Technology", Technical Talk by Mr. Brijesh Nawal on Industry Research and Vote of thanks by Dr. Meeta Meshram. Further sessions of students presentation were held in online mode at department level batch wise under expert supervision. Competition focus will be on latest trends on smart computing, new trends in smart city, robotics, Artificial Intelligence (AI), Internet of Things (IoT), Augmented Reality and Virtual Reality, e-Vehicles, security and surveillance, smart manufacturing and industrial automation. This Competition will provide a platform for prospective engineers to show- case their work on hardware as well as software things in the field of engineering and management.

Faculty Coordinator Mr. Ravikant K. Nanwatkar

COO Ambegaor (Bk.), Pune-4

Conference Coordinator Prof. D. H. Burande



Disease Prediction System Based on Support Vector Machine, Random Forest and Naive Bayes

Ms. Aparna M. Bagde¹, Shreya Wadkar², Aditya Patil³, Amol Nidankar⁴
Assistant Professor, Department of Computer Engineering, NBN Sinhgad School of Engineering, Pune¹
UG Student, Department of Computer Engineering, NBN Sinhgad School of Engineering, Pune^{2,3,4}

Abstract: The development and application of several leading data-mining techniques in many real-world application areas (e.g., industrial, healthcare, and life sciences) has led to their use in machine learning environments to extract important pieces of information from specified data in health communities, biomedical fields, and so on. Accurate medical database analysis benefits early disease detection, patient care, and community services. Machine learning techniques have been successfully used in a variety of applications, including early-stage disease prediction and diagnosis. This study demonstrates a disease prediction system built with machine learning algorithms such as the Decision Tree classifier, the Random Forest classifier, and the Naive Bayes classifier.

Keywords: Machine Learning, Data mining, Decision Tree classifier, Random Forest Classifier, Naive Bayes Classifier, etc.

❖ National Conference on Cognitive Computing(NCCC-2021):



ABOUT STES

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CONFERENCE TRACKS AND AREA:

- Smart Technology: IoT/ Smart Vehicle, Smart Communication, Robotics, web & mobile application and cloud computing
- Green Technology: Renewable Energy, Smart Agriculture, waste management, clean water management, Smart City and sustainable environment
- Smart Computing: AI/ML, Data Science and Analytics and Image Processing
- Security and Surveillance: Cyber Security, Blockchain and Video Surveillance
 Interdisciplinary Aspects: Industry 4.0,E-Vehicles, Mechatronics, Smart Factory, Smart Sensors, Healthcare and biomedical, Financial Management, Recent trends in marketing and HR

IMPORTANT DATES

Particulars	Date	Particulars	Date	
1. Paper Submission Starts	May 22,2021	3. Full Paper Submission	June 10, 2021	
Acceptance / Notification	May 30, 2021	4. Registration	June 16, 2021	

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^{**} Prepared by: Prof. H.N. Lokhande

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Name of the Bank: Indian Bank

Branch: Vadgaon (Bk), Pune

Account Number: 6675755279 Publication Charges:-400/- Rs. (Per Paper)

Type of Account: Current

PAPER PUBLICATION

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Accepted and presented papers will be considered for publication in Journal of Science and Technology (JST). For Scopus / Web of Science the authors need to pay additional fee as per the requirement.

Maximum Length of paper should be less than 6 pages.

Link for paper Template of Paper and copyright form: Scan the QR Code OR Click here to download

REGISTRATION LINK:

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Proceedings of National Conference on Cognitive Computing (NCCC-2021)

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June 28 - 30, 2021

Sinhgad Technical Education Society's NBN Sinhgad Technical Institutes Campus, Ambegaon (Bk.), Pune-411041.

Report of

Online National Conference on Cognitive Computing (NCCC-2021)

A Online National Conference on Cognitive Computing on latest trends on smart computing, new trends in smart city, robotics, Artificial Intelligence (AI), Internet of Things (IoT), Augmented Reality and Virtual Reality, e-Vehicles, security and surveillance, smart manufacturing and industrial automation, organized by STES's NBN Sinhgad Technical Institutes Campus, NBN Sinhgad School of Engineering, Pune in association with Jounal of Science and Technology, during June 28-30, 2021. Total 123 participats all over the Maharashtra state has attended this program.

CONFERENCE TRACKS and AREA

- Smart Technology: IoT/ Smart Vehicle, Smart Communication, Robotics, web & mobile application and cloud computing
- Green Technology: Renewable Energy, Smart Agriculture, waste management, clean water management, Smart City and sustainable environment
- Smart Computing: AI/ML, Data Science and Analytics and Image Processing
- Security and Surveillance: Cyber Security, Blockchain and Video Surveillance
- Interdisciplinary Aspects: Industry 4.0,E-Vehicles, Mechatronics, Smart Factory, Smart Sensors, Healthcare and biomedical, Financial Management, Recent trends in marketing and HR.

Mr. Kaustubh Laturkar, Associtae Vice Presendent, Cognizant (Global AI practice lead), Pune was invited as a chief guest for the inagural ceremony on June. 28, 2021. Total 06 sessions was arranged to explore recent trends in multidiciplinary engineering fields. Prof. Harshal Lokhande worked has a Coordinator with his team. The great vision of Dr. M. M. Jadhav, Head of Department has enlighten all the participants to gain knowledge in the fields of smart city, robotics, Artificial Intelligence (AI), Internet of Things (IoT), Augmented Reality and Virtual Reality, e-Vehicles, security and surveillance, smart manufacturing and industrial automation from the eminent resource persons. Dr. S. P. Patil, Principal, NBN Sinhgad School of Engineering, Pune has always been the leader in motivating the faculty members to organise such informative technical conference that are always beneficial to society.

Department of E&Tc, NBN Sinhgad School of Enfineering, Pune is thankful to guest of speakars. Mr. Avinash Joshi, Senior Associate Lead, Infosys, Mr. Pradeep Kumar, CEO, Rubicon, Mr. Sarthak Dangaycha, Area Manahger, Turnitin India Education Pvt. Ltd., Prof. Deepak Gupta, NIT, Arunachal Pradesh and Dr. Amar Buchade, Asst. professor, PICT Pune and Tresurer of IEEE Pune Section, for technically sponsoring the event and raising it to global level.



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Publication Charges:- Rs. 400/- (Per Paper)

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Type of Account : Current

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A Systematic Analysis of Blockchain Technology and Cryptocurrencies

Vijay Ingawale¹, Prof. Kavita Kumavat²

vijayingawale8531@gmail.com, kavitakumavat26@gmail.com

^{1,2} Computer Engineering, NBN Sinhgad School of Engineering Ambegaon bk, Pune

Now a day's everyone doing lots of online transactions in day-to-day life, the online transaction involves digital money and that is becoming bit of challenge these days with rising threats, the hackers are stealing the bank account's detail's that is posted online and to overcome these problem's various kinds of crypto currency is the invention and the Bitcoin is one of them. The Blockchain Technology is used behind the Bitcoin crypto currency. In this work analysis discussed about blockchain technology and crypto currency. Blockchain basic and working of blockchain technology and crypto currency works, benefits of blockchain and it will change the future of internet and life of us.

❖ Next Generation Information Communication Technologies-2020(GC-NGICT 2020):



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Industry(Maximum 2 Authors)	INR 3000	INR 3500

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Branch	Vadagaon Budruk, Pune	Last D
IFSC Code	IDIB000V104	Date o

ļ	Paper Submission Opens	20 ⁴ Jan 2020
ľ	Notification of Acceptance	Within 15 days of Submission
	Last Date of Submitting Papers	20 th March 2920
	Last Date of Registration	30 th March 2020
8	Date of Conference	10° & 11° March 2020

OBJECTIVES OF THE CONFERENCE

To provide platform for exploring pervasive computing for leading researchers and educators of various domains by eminent personalities' keynote sessions. To provide technical platform for research scholars to present new ideas and exchange technical knowledge.

SCOPE OF THE CONFERENCE

GC-NGECT-2020 provides a platform to researchers for publishing their unpublished work in conference proceeding.

Also all the papers will be double blind reviewed and accepted papers will be submitted for possible inclusion to Scopus - UGC approved /Google Scholar indexing journals. The papers will be published as per the norms of indexing journals and editors decision. Full-text papers will be accepted through the link:

https://nbnsticconf.com

The broad area of conference includes, but not limited to:

Track 1: Pervasive Computing and Cloud Computing

- Virtualization Infrastructure and Platforms
 Data engineering for pervasive computing
 Cloud computing
 Pervasive computing: healthcare; cyber physical computing; innovative computing applications

Track 2: Data Analytics and Machine Learning

- Data Science
 Big Data analytics and NoSql databases
 Active, Machine and Deep learning
- Artificial Intelligence
 Data mining

Track 3: Signal, Image and Video Processing

- Pattern recognition and Analysis
 Analog and Mixed signal processing
 Audio/speech processing
 Digital and mobile signal processing
 implementation of Signal, image, Video Processing

Track 4: IoT and Communication

- Next generation networks
 toT Led Digital Transformation
 Smart buildings and Lighting infrastructure
 Antenna, Microwave and RF Design

Track 5: Multidisciplinary topics in Engineering

Proceeding of Global Conference

011

Next Generation Information Communication
Technologies-2020
(GC-NGICT-2020)
10th & 11th April 2020

ORGANIZED BY



Department of Computer Engineering,
Information Technology
&
Electronics and Telecommunication

Engineering



SINHGAD TECHNICAL EDUCATION SOCIETY'S NBN SINHGAD SCHOOL OF ENGINEERING, AMBEGAON, PUNE-41 INFORMATION TECHNOLOGY DEPARTMENT

EVENT REPORT

Name of Event: - Global Conference on "Next Generation Information Communication

Technologies-2020"

Event Type:-Online Conference

Staff Coordinator: - Prof. W. P. Rahane, Dr. S. A. Chiwhane, Mrs. S. M. Jog

The event Global Conference on "Next Generation Information Communication Technologies-2020" organized by Department of Computer Engineering, Information Technology, Electronics and Telecommunication Engineering was started on 10th April 2020 and end on 11th April 2020. The event was organized online. Total number of papers registered were 90.

EVENT DESCRIPTION :

On 10/04/2020, the event was started at 10:00 am sharp. GC-NGICT 2020 invites research papers on various areas of computing technologies which can serve as a forum to share knowledge, expertise and experiences of various researchers, academicians and students. Also, The GC-NGICT-2020 conference was organized to offer a platform to the researchers working in the field of next generations ICT technologies. The conference were include paper presentations, invited talks and poster exhibitions. It was organized for all engineering as well as MBA students and faculties. **Dr. Shriram D. Markande (Principal, NBNSSOE)** has given an introductory speech on this day and conference coordinator with further perspective views and guidance speech from all heads of department. Welcome and encouraging speech was given by Prof. S. P. Patil (HOD,IT). Then further session of participants presentation were held in online mode at batch wise under expert supervision.

Event Photos









Sign Faculty Coordinator



Sign of HOD

TRUE COPY

Director
NBN Sinhgad Technical Instituses
Campus, Ambegaon(Bk.), Pune-41.



"Enabling authentication and Access Control-Based Data Sharing with personal Information Hiding for Secure Cloud Storage"

Supriya Raywade , Ayushi Dixit, Shruti Jain, Deepali Jain

Dept. of Computer Engg. NBN Pune, India

Abstract

Unfortunately, the e-healthcare cloud system has shown its potential to improve health care and the quality of life of the individual, privacy and security slows its general deployment and application There are a number of researches on the protective privacy of electric healthcare high (EHR). Information. However, all of these have two major limitations, they only work on the 'black or white' access regulator policy. Additionally, they suffer from mutual attack. In this paper, for the first time, we find that inferential attack-resistance

We first recommend a two-layer encryption scheme with an e-healthcare cloud company with a fine-grained access regulator. To ensure an effective and fine-grained controller over EHR data, we employ first-layer encryption, where we advance a specific threshold for each data feature in the EHR and independently encrypt it with high efficiency. To reserve an