ABSTRACT

R.C.PATEL EDUCATIONAL TRUST

Proceeding of One Day National Conference on

# Recent Advances in Intelligent Computing

## (RAIC-2024)

Saturday, 23rd March, 2024


- Editorial Board Members -

Dr. Amit P. Patil • Dr. Manoj S. Sonawane

• Mr. Rahul S. Badgujar



- Organized by -

R. C. Patel Educational Trust's

**Institute of Management Research and Development, Shirpur**

Karvand Naka, Shirpur, Tal. Shirpur - 425405,

Dist. Dhule (M.S.) India

# ABSTRACT BOOK

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**Recent Advances in Intelligent Computing (RAIC-2024)**



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# About Institute

Institute of Management Research and Development, Shirpur is one of the premiere institutes run by the R.C. Patel Educational Trust, Shirpur. IMRD is situated at the foot of the Satpura ranges and dotted with lush green trees and shrubs all around it. It has most picturesque and inviting atmosphere. Institute is having tag line "Quality Education for Nourishing Tomorrow's IT and Management Professionals.

The R.C. Patel Educational Trust is existing from 1988. The Institute of Management Research and Development, Shirpur was established in the year 1997 with a vision to pour the quality education up to grass root level. IMRD was set in motion with the introduction of the postgraduate programme Master of Computer Applications (MCA) & Master of Management Studies (MMS). The UG courses are Bachelor in Computer Application (BCA), Bachelor in Business Administration (BBA) & Bachelor in Management Studies (BMS).

In our endeavour to supplement the cause of professional education, we have instituted multi-dimensional courses spread in various fields with its roots established at Shirpur. The Teaching and Non- Teaching Staff of the institute is a blend of senior experienced and young dynamic faculty members devoted to the noble cause of education. Many of our students have obtained top ranks in the university examinations and are in great demand in the industries in India and abroad also. We believe in offering education that is converted to knowledge with high end infrastructure and a pleasant atmosphere.

IMRD is accredited by NAAC with B+ Grade (1st Cycle), Awarded with A Grade by KBC North Maharashtra University, Jalgaon in Academic & Administrative Audit. Also received Best Institute Award by Computer Society of India, Bangalore.

Alumni of IMRD are working in different countries and various multinational companies in metro cities. The students of IMRD always secure top 3 positions in merit list of KBCNMU, Jalgaon in different programmes. Institute provides placements in top IT and Management companies like TCS, Infosys, Wipro, Cognizant etc.

Institute having research centre of computer science and management having 4 guides.10 faculty members are PhD. awarded and 11 faculty members are pursuing PhD.

# About Conference

The institute organized a one day national conference on recent advances in intelligent computing on 23rd March 2024. A total of 89 students, academicians, and researchers attended this conference from various states, such as Telangana, Uttarakhand, Rajasthan, Madhya Pradesh and Maharashtra. A total of 16 students, academicians, and researchers presented their research papers in online and offline modes. Total 10 selected research papers of students, academicians, researchers are communicated for UGC care publication. The objectives of this conference were to provide a platform for researchers, academicians, and industry professionals to exchange ideas and discuss the latest trends in the field of intelligent computing. The conference covered different themes like Deep Learning and Neural Networks, Data Science, Natural Language Processing, Image Processing, Big Data and Data Analytics, Cyber Security, IoT, Robotics and Automation, Artificial Intelligence, Machine Learning, Cloud Computing, etc. For this conference, Ms. Sweta Dargad, Assistant Professor, Symbiosis Skills and Professional University, Pune was invited as a keynote speaker.

The conference was started by welcoming the guests and enlightening the lamp, followed by the preface of convener Dr. Amit P. Patil. The director of institute Dr. Vaishali B. Patil madam was the chairperson of this conference. Madam told that, intelligent computing has emerged as a cornerstone of modern innovation, revolutionizing industries, enhancing human capabilities, and reshaping the way we interact with technology. Ms. Sweta Dargad in her keynote address gave an introduction of cyber warfare, cyber security, and types of cyber warfare attacks. Madam told the importance of make in India. Madam also explained the threat landscape, the requirement of cyber security professionals, the importance of cyber security certification, workshops, conferences, etc.

# Convener's Message

It is my privilege and honour to welcome you all to the "One Day National Conference on Recent Advances in Intelligent Computing". The main objectives of organizing this conference are to provide a platform for researchers, academicians, and industry professionals to exchange ideas and discuss the latest trends in the field of intelligent computing.

Intelligent computing, a field at the intersection of computer science and artificial intelligence, has been witnessing remarkable advancements in recent years. Today, we gather here to explore and celebrate these advancements, which are reforming industries, enhancing our lives, and driving innovation forward.

There are a total of 89 participants and 16 research papers received from various states, such as Telangana, Uttarakhand, Rajasthan, Madhya Pradesh and Maharashtra.

We are conducting this conference in a hybrid mode, covering different themes like Deep Learning and Neural Networks, Data Science, Natural Language Processing, Image Processing, Big Data and Data Analytics, Cyber Security, IoT, Robotics and Automation, Artificial Intelligence, Machine Learning, Cloud Computing, etc.

I would like to express my heartfelt gratitude to Ms. Sweta Dargad Madam, Assistant Professor, Symbiosis Skills and Professional University, Pune, for accepting our request and dedicating valuable time. I am also thankful to our RCPET's management members, The Director Dr. Vaishali Patil Madam, and HODs for motivating us to arrange this national conference. Last but not least, I extend my gratitude to all the participants.

Thank you.

**- Dr. Amit P. Patil,**
Convener,
Assistant Professor,
RCPET's IMRD, Shirpur

# Conference Chairperson's Message

Welcome to this auspicious occasion, the One Day National Conference on Recent Advances in Intelligent Computing. It is a great pleasure to welcome you all who are representing a gathering of brilliant minds and innovators in the field of intelligent computing in our institute as the conference chair.

Today marks a significant milestone in our collective journey towards pushing the boundaries of technological advancement. Intelligent computing has emerged as a cornerstone of modern innovation, revolutionizing industries, enhancing human capabilities, and reshaping the way we interact with technology. As we convene here today, we are presented with a unique opportunity to delve into the latest breakthroughs, explore cutting-edge research, and engage in meaningful discussions that will shape the trajectory of intelligent computing in the years to come.

The theme of this conference, "Recent Advances in Intelligent Computing," underscores the dynamic nature of computer field. With rapid advancements in artificial intelligence, machine learning, data analytics, and related disciplines, there has never been a more exciting time to be involved in intelligent computing. Throughout the day, we will have the privilege of hearing from distinguished researchers, scholars, and practitioners who are at the forefront of innovation in intelligent computing. Their insights, perspectives, and findings will undoubtedly inspire and inform our collective understanding of this ever-evolving domain.

As we embark on this journey together, let us remain committed to the pursuit of excellence, innovation, and ethical responsibility in our endeavours. Let us embrace the challenges and opportunities that lie ahead with optimism, determination, and a shared sense of purpose. In closing, I would like to express my gratitude to all the participants, speakers, and organizers who have contributed to making this conference a reality. Your dedication and passion are the driving forces behind our collective success.

Let us make the most of this opportunity to learn, collaborate, and shape the future of intelligent computing.

Thank you.

**- Dr. Vaishali B. Patil**
Conference Chairperson
RCPET's IMRD, Shirpur

# Keynote Speaker's Message

Ladies and Gentlemen,

Welcome to the One Day National Conference on "Recent Advances in Intelligent Computing." It's an honour to be here among such esteemed colleagues and scholars in the field of intelligent computing.

Today, as we gather to examine the latest developments and breakthroughs in intelligent computing, we stand at the forefront of a technological revolution that is remaking the way we interact with machines and process information. The pace at which advancements are being made in this field is nothing short of extraordinary, and it's imperative that we, as researchers and practitioners, stay abreast of these developments to harness their full potential for the betterment of society.

Intelligent computing, with its intersection of artificial intelligence, machine learning, and data science, is not merely about creating smarter machines; it's about solving some of the most complex problems facing humanity today. From healthcare and finance to transportation and beyond, intelligent computing has the power to revolutionize industries, improve efficiency, and enhance decision-making processes.

As we navigate through today's sessions and discussions, I wish you to not only focus on the technical aspects of intelligent computing but also consider its broader implications for society. How can we ensure that these technologies are deployed ethically and responsibly? How do we address concerns surrounding privacy, security, and bias in algorithmic decision-making? These are questions that demand our attention and require interdisciplinary collaboration to find meaningful solutions.

I hope you all will engage in the discussions actively.

Thank You.

**- Ms. Sweta Dargad,**
Keynote Speaker,
Assistant Professor,
Symbiosis Skills and Professional University, Pune

The Inauguration of One Day National Conference on Recent Advances in Intelligent Computing

The Director of the Institute Dr. Vaishali B. Patil felicitating Ms. Sweta Dargad, Assistant Professor, Symbiosis Skills and Professional University, Pune

# INDEX

## Research Papers Presented In Online / Offline Mode

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# EV Health Monitoring Display on Android Device

**Chetan Gawade[1], Nidhi Chavan[2], Saurabh Jadhav[3], Nehar Surkar[4]**
KJ's Educational Institute K J College of Engineering And Management Research, Pune.

**Abstract :**

As the automotive industry transitions towards sustainable solutions, the integration of electronic vehicles (EVs) has become increasingly prevalent. This research introduces a novel approach to enhance the maintenance and monitoring of EVs by predicting the health status of critical components brakes, tires, engine, and battery. The proposed system employs Arduino and GPS technologies to collect real-time data on the distance travelled by the vehicle. Utilizing this data, predictive algorithms are implemented to assess the health conditions of the mentioned components.

The communication between the EV and an Android device facilitates a user-friendly interface for monitoring and displaying the health status. The research explores the technical aspects of the project, including the hardware setup, data collection methodology, and the algorithms employed for predictive analysis. Moreover, the paper discusses the potential impact of the proposed system in optimizing maintenance schedules, reducing downtime, and enhancing overall safety and efficiency in electronic vehicles.

This research bridges the gap between traditional vehicle maintenance and modern technology, offering a proactive approach to addressing potential issues before they escalate. The findings showcase the feasibility and effectiveness of the proposed Electronic Vehicle Health Monitoring Display, contributing to the on-going evolution of smart and sustainable transportation systems.

**Keywords :** Electronic Vehicles, Predictive Maintenance, Arduino, GPS Technology, Health Monitoring Display.

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# Plant Leaf Disease Detection for Grapevines

**Sarika Bobde , Rashmi Rane, Pradnya V. Kulkarni, Ruhi Patankar**
Dr. Vishwanath Karad MIT World Peace University, Pune

**Abstract :**

The diagnosis of the plants is carried out with a visual inspection by experts and a biological examination is the second choice if necessary which is usually expensive and time consuming. This inspired several computer methodologies to detect plant diseases based on their leaf images.

This project has developed an extended plant disease detection approach in grapevines by the implementation of the Conventional CNN model. We apply a computer methodology on Deep Learning systems based on artificial neural networks, that also allows for the early detection of plant diseases, by applying the Siamese Twins Neural Network to an augmented dataset containing images of healthy and diseased leaves (each leaf is manually cut and placed on a uniform background) with acceptable accuracy rates in the research environment.

The experiment used an open source database of 61,486 images classified in 39 classes of healthy and disease grape plant leaves. The original Plant Village dataset consists of 54,303 healthy and unhealthy leaf images divided into 38 categories by species and disease. The use of the Siamese

Twin Model achieved an 97% accuracy rate, which is a significant improvement compared to the result of using a single CNN model.

The model fulfils its role by classifying images into two categories (disease-free) and (diseased). According to the results obtained, the developed system achieves better detection performances than those proposed in the state of the art.

**Keywords :** Plant disease classification, deep learning, machine learning, VGG19.

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ISBN : 978-93-95596-78-7



# Threat Detection and Prevention Systems for Network Security based on Machine Learning

**Mr. Srikanthreddy Konni**
SR University

**Abstract :**

The complexity and prevalence of cyber-attacks in today's network security environment have made the creation of sophisticated detection and prevention systems necessary. An overview of the application of machine learning techniques to improve network security threat detection and prevention systems is provided in this study. The main emphasis is on investigating different machine learning techniques, including supervised, unsupervised, and reinforcement learning, and using them to detect and mitigate different kinds of cyber threats, like malware, intrusion attempts, and unusual activity. In order to improve the effectiveness and resilience of the detection models, the study also looks into the integration of feature engineering, data pre-processing strategies, and ensemble learning approaches.

The study also explores the difficulties and constraints that come with using machine learning in network security, such as the requirement for sizable labelled datasets, model interpretability, and adversarial assaults. Additionally, methods for overcoming these obstacles are covered, including hybrid techniques that combine machine learning algorithms with conventional rule-based systems, adversarial training, and transfer learning. The techniques and ideas put forward in this paper support the current endeavours to strengthen network security infrastructures against dynamic cyber-attacks, which in turn helps to build more robust and flexible threat detection and prevention systems.

**Keywords :** Network Security, Threat Detection, Threat Prevention, Supervised Learning, Machine Learning.

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ISBN : 978-93-95596-78-7

# Robotics and Automation

**Dr Vijay Patil**
Senior Teacher
HSS Gawadi, Dist. Barwani, MP

**Abstract :**

We can call Robotics as a branch of engineering that deals with design, construction, operation and use of robots and computer systems for their control, sensory feedback, and information processing. Its objective is to create intelligent machines that can assist or help humans in many different ways. It is normally related to the use of robots, how they are invited, how they operate and the computer system that is used to control the robot. It also includes feedback from sensors as well as the processing of information that the robot has to use. Whereas automation is when any device or any machine is changed or created in such a way so that it can be used for the task or it can complete the task for which it is created without the need of human interaction. Automation has made people live much more comfortable lifestyle, elderly people with disabilities are much benefited from voice-assisted home automation system that allows them to control their devices with simple voice commands. The implementation of automation technologies, techniques and processes improves the efficiency, reliability and speed of many tasks that were previously performed by human beings.

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# Data-Driven Decision Making: A Review of Big Data and Data Analytics Approaches

**Dr. Bhaskar Seth[1], Ms. Amisha Kavdia[2]**
[1]Associate Professor, [2]Student
Geetanjali Institute of Technical Studies, Udaipur

**Abstract :**

In the current era of digitally enabled world, the expansion of data has become universal, giving rise to the concepts of big data and Data Analytics. This review paper provides a comprehensive view of these interconnected concepts, significance, objectives, implications, and methodologies. Big data refers to the massive volume of data generated from various sources whereas Data Analytics encircle the processes and techniques which are used to extract valuable insights from the massive data. The significance lies in their evolutionary potential for businesses and organizations. By leveraging this power businesses can grow and gain actionable insights. The objective of framing this review paper is to explore the implications for different industries and sectors. We'll look at what's being done now, what problems exist, and where we can go from here.

**Keywords :** Big data, Data Analytics Leveraging, Potential, Evolving.

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# An Algorithm Visualization Survey Paper on Data Structure

**Mr. Naresh K**
SR University

**Abstract :**

Data Structured and Algorithms an essential component of algorithm design is visualization. Data structures and algorithms are traditionally analyzed theoretically and mathematically. This results in a time-consuming, challenging learning environment and a lack of comprehension of how a topic is implemented in real life. This restricts the size and reach of project ideas. The requirement to see the data structure and method has constantly been increasing. Since web programming is becoming more and more popular, we must make sure that the programs we create show data structures and algorithms as well as how they are actually implemented in the real world. with order to assist instructors and students with visualizing data structures and algorithms in practical applications, we have created and provided a concept, data structures, and an algorithm that can achieve this purpose.

**Keywords :** Data Structures, Algorithms, Visualization, Real-Life Implementation.

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# Detection of Criminal Activities through CCTV by Analysing Live Footage for Mob Formation, Body Language of Suspect

**Mr. Pratik More[1], Mr. Yash Rokade[2], Mr. Sahil Ramzan[3], Mr. Vishal Gore[4]**
MVPS's KBT College of Engineering, Nashik

**Abstract :**
With the increasing need for enhanced security measures, the utilization of Closed Circuit Television (CCTV) systems has become important in safeguarding public and private spaces. The system employs advanced algorithms to analyze video streams from CCTV cameras, with a primary focus on identifying and alerting authorities to potentially criminal activities. Through the utilization of Machine Learning and Deep Learning technologies, including Convolutional Neural Networks (CNNs), this system provides automated surveillance and alert capabilities. Key components of this system include robust real-time video processing, monitoring and control interface, and an alerting mechanism that integrates seamlessly with email services. When an abnormal activity is detected, the system generates immediate alerts, sending notifications to designated security personnel, law enforcement agencies, and property owners via mail. This instant notification feature enables rapid response, reducing the likelihood of criminal incidents escalating and improving overall safety in the monitored area.

**Keywords :** Machine Learning, Weapon detection, theft prevention, CNN, YOLO Algorithm.

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# Empowering the Digital Citizen with Cyber Security and Privacy in the Digital Era

**Prof. Amul Tamboli[1], Dr. Vinod Mohite[2]**
[1]Dr. D.Y. Patil Vidyapeeth Pune, [2]Marthwada Mitamandal's Institute of
Management Education Research and Training, Pune

**Abstract :**

Cyber security and privacy these words are not new nowadays. We all irrespective of our jobs or businesses need to be constantly aware of it. The world of digitization comes with a price of offering our secrets and security in the hands of black hat hackers anytime. This kind of privacy breach can result in a very dangerous situation for any of us. The terms fraud, fishing or hacker are also very common nowadays. The technology has entered every field of our life. It is quite important to take care of our electronic data that is publicly available in various domains.

This research paper will focus on maintaining cyber security and privacy among all the users of the latest technology especially in the field of banking and finance because we often hear the news of financial losses without the knowledge of the account holders.

**Keywords :** Black hat hacking, Fintech, cyber security, Digital Privacy.

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# LPG Gas Leakage Detection and Protection

**Samiksha Bhoir[1], Sonali Gadhave[2], Kalyani Dhebe[3], Shreya Divekar[4]**
Students
KJ College of Engineering and Management Research

**Abstract :**

The gas leakage detection and protection system proposed in this project address the significant safety concerns associated with gas leaks, particularly focusing on LPG usage in households and industries. By leveraging the Internet of Things (IoT) and Artificial Intelligence (AI), the system aims to detect gas leaks promptly and take preventive actions to mitigate potential hazards. It employs sensors such as the MQ-6 gas sensor to detect changes in gas concentration, along with advanced algorithms like YOLOv3 for fire detection, ensuring comprehensive monitoring and alert mechanisms. Integration with GSM technology enables real-time communication and alerts to users' mobile devices, enhancing responsiveness and safety measures. The system utilizes Raspberry Pi for processing and control, offering a cost-effective and versatile solution for implementation. Through continuous monitoring, data analysis, and remote control capabilities, the system ensures proactive measures against gas leaks, thereby minimizing the risks of accidents, fires, and explosions. Overall, the proposed gas leakage detection and protection system represents a crucial advancement in safety technology, providing a reliable and efficient solution to safeguard lives and property from the dangers posed by gas leaks.

**Keywords :** Internet of Things, MQ6 Sensor, YOLOv3 algorithm for fire Detection Artificial Intelligence.

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# An Examination of Isaac Asimov's Robot Collection: The Development and Characteristics of the "Three Laws of Robotics"

**Rishabh Walia**
Research Scholar
Graphic Era Hill University, Dehradun

**Abstract :**

With the advancement of contemporary technology and the creation of cybernetic beings distinguishing between humans and artificial intelligence becomes increasingly harder. One can no more debate from the standpoints of physical science or biology with persons armed with synthetic organs. The distinction between humans and machines begins to disappear. Meanwhile, machine intelligence progressively acquires human qualities via its learning capabilities. So, what makes people different from robots? One reason is the "three laws of robotics," which say that robots can't act randomly or as easily as people. The three Laws of Robotics as stated by Isaac Asimov in I, Robot are as follows:

First, a robot is not allowed to intentionally damage an individual or passively enable a person to be injured.

Second, a robot must follow human commands, unless doing so would violate the First Law.

Third, a robot has the duty to safeguard its own existence as a whole provided doing so does not violate the First or Second Laws.

**Keywords :** Artificial Intelligence, Robot, Robotics, Robot-block and Zeroth Law.

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# A Comprehensive Study of Management Information System (MIS) and Computer Science (CS) in Managerial Decision Making

**Mr. Chavan Devanand Bhila[1], Dr. Vikas Barbate[2]**
[1]Research Scholar, [2]Dean
ASM'S Institute of Business Management & Research (IBMR), Pune

**Abstract :**

MIS provides timely, accurate, and relevant information to managers and decision-makers. This allows them to make well-informed decisions, leading to better strategic planning and problem-solving. MIS automates routine tasks, data processing, and report generation. The MIS department provides internal help desk and support services, assisting employees and troubleshooting issues related to the infrastructure. Data management involves provisioning and managing systems that enable employees to access and update critical business data. The Management Information System processes that flow through computer data and integrated with other processes to provide information in a faster and more efficient way to support decision-making and other administrative tasks. Computer science emerged as an independent discipline in the early 1960s, although the electronic digital computer that is the object of its study was invented some two decades earlier. The roots of computer science lie primarily in the related fields of mathematics, electrical engineering, physics, and management information systems. This finding is also true when we consider that the number of modern business data and databases is growing, and effective business decision-making is possible only when the information is needed quickly, accurate and relevant and managed by sufficient personnel but in many cases not efficiency is the result of a lack of good information management systems. The rapid development of information technology and telecommunications has spread across the realm of health and personalization. With the best possible alignment of these technologies to achieve the highest quality decisions at all levels of management from the highest to the lowest. Information technology in organizing good and relevant data provides excellent opportunities for rapid and efficient fraud to increase the quality of decision-making.

**Keywords :** Computer science, MIS, technology adoption, managerial decision making.

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# Women Entrepreneurship in India - A Review Article

**Miss. Atre Megha Subhash[1], Dr. Pawar Hitesh Gulab[2]**
[1]Research Scholar, [2]Professor
[1]KBC North Maharashtra University, Jalgaon,
[2]Kisan Arts, Commerce and Science College, Parola

**Abstract :**

Changes in the social structure of Indian culture, such as women's rising educational status and changing desires for a better life, required adjustments in Indian women's lifestyles. Entrepreneurs play an important role in any economy. This is the general public who has the critical skills and activities to launch great new projects and make the right decisions to turn ideas into fruitful ones Entrepreneurship for women's development is a fundamental part of human resources. Compared to other countries, the development of female entrepreneurship in India is low, especially in rural areas. In the current economic climate, women's entrepreneurship is gaining importance in India. India has many successful businessmen and entrepreneurs in both social and economic spheres. In fact, an "entrepreneur" is usually a woman who arranges and trades undertakings involving considerable activity and risk. The current investigation was an attempt to generate mindfulness and understand its implications, extensional legitimacy. The author's extensive research on women entrepreneurs in India is conducted.

**Keywords :** Women Entrepreneurship, Entrepreneur, Review Article.

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# Students Perspective on AI in Education

**Ms.Shravani Pramod Deore[1], Mr.Vaibhav Pramod Patil[2]**
R. C. Patel Polytechnic, Shirpur

**Abstract :**

In recent years, there has been increasing discussion and interest in the application of artificial intelligence (AI) in education. Through a thorough survey, this study seeks to explore students' viewpoints on the application of AI in educational contexts. In order to gain a comprehensive picture of the attitudes, views, and expectations of a varied sample of students at different educational levels, the survey solicited replies.

The results show that students' views on artificial intelligence's application in the classroom are not uniform. While some are excited about how AI may be used to tailor lessons, enhance student performance, and help teachers more effectively, others are worried about privacy, equity, and the possibility that AI will eventually take the position of human teachers.

The study also shows how students' comfort levels with AI technologies vary depending on their age, amount of technological knowledge, and educational background.

Additionally, the study reveals the preferences of students with respect to certain AI applications in education; among the most popular choices were adaptive learning platforms, intelligent tutoring systems, and AI-powered feedback tools. But it also highlights issues with the veracity of assessments produced by AI and the necessity of open algorithms.

In summary, this study provides insightful information about the diverse ways that students view artificial intelligence in the classroom. It is imperative that educators, legislators, and AI developers comprehend these viewpoints in order to create morally-responsible, inclusive, and successful AI-driven learning programs that meet the needs and goals of students.

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# AI Based Smart Supervision System

**Dr. DM Marathe[1], Ms. Harshada Vijay Mandlik[2], Ms. Vaishnavi Tukaram Dorik[3]**
RCPET's Institute Of Management Research and Development, Shirpur

**Abstract :**

The integrity and fairness of examinations are continually compromised by deceptive practices such as whispering, head movements, and unauthorized hand contacts. These unethical activities pose a serious threat to the credibility of examinations, necessitating the development of a robust model for real-time supervision and control. This research aims to introduce an innovative model designed to detect and prevent such unethical behaviour during examinations, there by upholding the principles of fairness and impartiality. The suggested monitoring system can be used in colleges, universities, and schools to identify and observe students engaging in suspicious activities. By implementing this monitoring system, we aim to stop and address cheating issues since it goes against ethical standards. The proposed invigilation model can be implemented in colleges, universities, and schools to detect and monitor student suspicious activities.

Hopefully, through the implementation of the proposed invigilation system, we can prevent and solve the problem of cheating because it is unethical. Each exam room needs a head invigilator to make sure the exams are honest and address any issues that may arise. That's why we implement the AI Base Smart Supervision System.

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# Sentiment Analysis in the Era of Social Media: Challenges and Opportunities

**Mrs. Chhaya S. Patil[1], Dr. Amit P. Patil[2], Ms. Rajshree Dipak Dhobi[3]**
RCPET's Institute of Management Research and Development, Shirpur.

**Abstract :**

Sentiment analysis in social media has emerged as a critical tool for understanding the vast and dynamic set of online discourse. The paper provides an inclusive overview of sentiment analysis, highlighting its importance in social media analysis and market research. It discusses challenges like handling sarcasm and ambiguity, and reviews different approaches including rule-based methods and machine learning algorithms. Assessment measurements and proper observations are additionally examined, followed by on-going headways like deep learning methods. The paper highlights sentiment analysis as an incredible asset for figuring out human feelings and sentiments, calling for arranged with exploration and development in different applications. Moreover, we examine the ethical considerations surrounding sentiment analysis in social media, such as privacy concerns and potential biases in algorithmic models. Despite these challenges, the opportunities presented by sentiment analysis in social media are vast, offering insights into public opinion, consumer behavior, and societal trends. By navigating these challenges and seizing these opportunities, researchers and practitioners can unlock the full potential of sentiment analysis in the era of social media.

**Keywords :** Sentiment Analysis, Deep Learning Techniques, Neural Network, Natural Language Processing (NLP), SVM, DT, NB, CNN, RNN, LSTM, Twitter, LDA, NER, Logistic Regression.

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# Challenges Faced by Training and Placement Officers in Rural Areas: A Comprehensive Analysis

**Mrs. Archana Manoj Jade[1], Dr. Amit P. Patil[2], Mrs. Chhaya Patil[3]**
RCPET's Institute of Management Research and Development, Shirpur

**Abstract :**

Training and Placement Officers (TPOs) are instrumental in bridging the gap between academia and industry, facilitating the successful placement of students into suitable job roles. While TPOs in urban areas face their own set of challenges, those working in rural areas encounter a distinct array of obstacles that can significantly impact their effectiveness. This paper aims to identify and analyse the challenges faced by TPOs in rural areas, offering insights into the unique factors that contribute to these challenges and proposing strategies to mitigate them. The challenges faced by TPOs in rural areas are multifaceted. Limited access to resources, including infrastructure and technology, can impede their ability to organize effective placement drives and training programs. Additionally, the lack of awareness about job opportunities and the importance of career guidance among students and parents in rural areas poses a significant challenge for TPOs. Moreover, the geographical spread of rural areas can make it challenging for TPOs to establish and maintain relationships with companies and industry professionals, hindering their efforts to secure placement opportunities for students. To address these challenges, TPOs in rural areas can implement various strategies. Leveraging technology, such as Machine Learning for Student Placement Prediction, Natural Language Processing (NLP) for Resume Parsing, Block chain for Secure Student Credential Verification, Virtual Reality (VR) for Virtual Job Fairs and Artificial Intelligence (AI) for Personalized Career Guidance. In conclusion, TPOs in rural areas face unique challenges that require tailored solutions. By understanding these challenges and implementing appropriate strategies, TPOs can enhance their effectiveness and improve the employability of students in rural areas.

**Keywords :** Training and Placement officer, challenges, Placement, Data.

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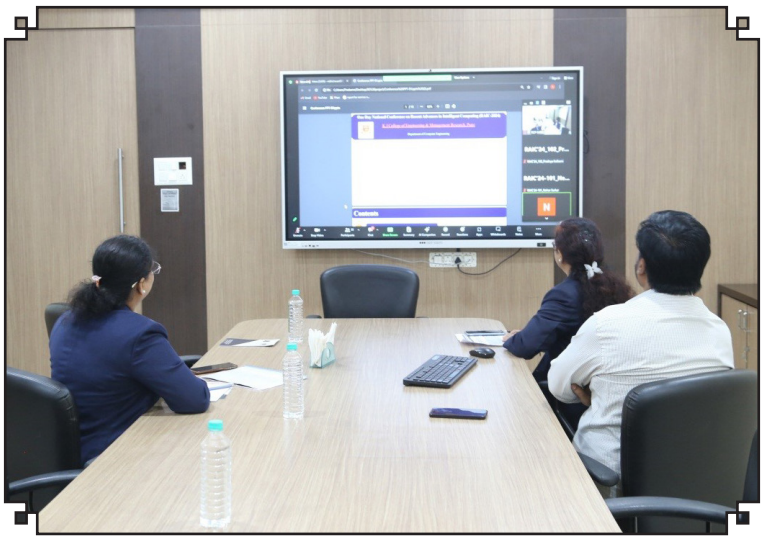
Ms. Sweta Dargad, Assistant Professor, Symbiosis Skills and Professional University, Pune delivering a keynote address



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The participants, while receiving the certificates


Offline Paper Presentation in National Conference

# Valedictory Session

In the valedictory session, a summarized report about the conference was presented by the convener of the conference. In this session, certificates were issued to offline participants.

Some of the participants gave feedback about this conference. One participant said, "The conference provided a comprehensive overview of the latest trends in intelligent computing and particularly enjoyed the diverse range of topics covered and found the presentations to be both informative and engaging". Another participant said, "The organizers did an excellent job of creating a welcoming and inclusive environment and appreciated the efforts to promote diversity and ensure that everyone felt valued and heard". One more participant said, “The speaker was highly knowledgeable and engaging, effectively conveyed complex concepts, and shared practical applications of intelligent computing technologies."

In this conference, Mrs. Archana M. Jade did the anchoring and vote of thanks.

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पुण्य नगरी

# आयएमआरडी परिसंस्थेत २३ मार्चला नॅशनल कॉन्फरन्स

**शिरपूर** : येथील आर.सी.पटेल एज्युकेशनल ट्रस्ट संचलित इन्स्टिट्यूट ऑफ मॅनेजमेंट रिसर्च ॲण्ड डेव्हलपमेंट परिसंस्थेत इंटेलिजेंट कॉम्प्युटिंगमधील प्रगती या विषयावर एक दिवसीय नॅशनल कॉन्फरन्स २३ मार्चला होणार आहे.

कबचौ उत्तर महाराष्ट्र विद्यापीठाचे डायरेक्टर डॉ. सतीष कोल्हे कार्यक्रमाचे उद्घाटन करतील. पुणे सिम्बायोसिस स्किल्स ॲण्ड प्रोफेशनल युनिव्हर्सिटीचे प्रा. श्वेता दरगड उपस्थित राहतील. कॉन्फरन्सच्या माध्यमातून विद्यार्थी, स्टाफ, रिसर्चर हे नविन संशोधन पेपर सादरीकरण करतील. परिषद अध्यक्षा व संचालिका डॉ. वैशाली पाटील यांनी उपस्थितीचे आवाहन केले आहे. एस.एम.पटेल ऑडिटोरियम हॉल, आर.सी.पटेल आय.एम.आर.डी. परिसंस्थेत कॉन्फरनस होईल. सहभागी होण्यासाठी वेबसाईटवर रजिस्ट्रेशन करणे आवश्यक आहे.

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# आर.सी.पटेलमध्ये इंटेलिजेंट कॉम्प्युटिंगवर परिसंवाद

**शिरपूर** : येथील आर.सी.पटेल एज्युकेशनल ट्रस्ट संचलित इन्स्टिट्यूट ऑफ मॅनेजमेण्ट रिसर्च अँड डेव्हलपमेंट परिसंस्थेत 'इंटेलिजेंट कॉम्प्यूटिंगमधील प्रगती' या विषयावर एक दिवसीय नॅशनल कॉन्फरन्स झाली.

कॉन्फरन्सला परिषद अध्यक्षा व आर.सी.पटेल आय.एम.आर.डी. संचालिका डॉ. वैशाली पाटील हे सेशन चेअर तसेच पुणे येथील सिम्बायोसिस स्किल्स अँण्ड प्रोफेशनल युनिव्हर्सिटीचे प्रा. श्वेता दरगड उद्घाटक व मुख्य वक्ता म्हणून उपस्थित होते.

परिषदेची प्रस्ताक्ना डॉ.अमित पाटील यांनी सादर केली. संचालिका डॉ. वैशाली पाटील यांनी इंटेलिजेंट कॉम्प्यूटिंगमधील प्रगती या विषयावर माहिती दिली. श्वेता दरगड यांनी सायबर सिक्युरिटी, सायबर वॉरफेअर, सायबर थ्रेट लँडस्केप, केस स्टडीज काय आहे. या विषयावर पीपीटीद्वारे माहिती दिली. परिषदेला एकूण १२५ विद्यार्थी, स्टाफ, रिसर्चर हे ऑनलाईन आणि ऑफलाईन उपस्थित होते.

विद्यार्थी, स्टाफ, रिसर्चर यांनी विविध विषयावर जसे डीप लर्निंग आणि न्यूरल नेटवर्क्स, डेटा सायन्स, नॅचरल लँग्वेज प्रोसेसिंग, बिग डेटा आणि डेटा ॲनालिटिक्स, सायबर सुरक्षा आणि गोपनीयता, आयओटी आणि एम्बेडेड सिस्टम्स, कॉम्प्युटर व्हिजन आणि इमेज प्रोसेसिंग, डिजिटल हेल्थ टेक्नॉलॉजीज, रोबोटिक्स आणि ऑटोमेशन, ए.आय.एम.एल., क्लाउड कॉम्प्युटिंग इ. रिसर्च पेपर सादर केले.

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# पटेल आयएमआरडी परिसंस्थेत इंटेलिजेंट कॉम्प्युटिंग मधील प्रगती विषयावरच चर्चा

**(दैनिक पोलीस शोध वृत्त )**

**शिरपूर प्रतिनिधी** - येथील आर.सी.पटेल एज्युकेशनल ट्रस्ट संचलित इन्स्टिट्यूट ऑफ मॅनेजमेण्ट रिसर्च अँड डेव्हलपमेंट परिसंस्थेत मइंटेलिजेंट कॉम्प्युटिंग मधील प्रगतीफ या विषयावर एक दिवसीय नॅशनल कॉन्फरन्स (ऑनलाईन ऑफलाईन) संपन्न झाली.

कॉन्फरन्सला परिषद अध्यक्षा व आर.सी.पटेल आय.एम.आर. डी. संचालिका डॉ. वैशाली पाटील हे सेशन चेअर तसेच पुणे येथील सिम्बायोसिस स्किल्स एड प्रोफेशनल युनिव्हर्सिटीचे प्राध्यापक श्वेता दरगड उदघाटक व मुख्य वक्ता म्हणुन उपस्थित होते.सुरुवातीला मान्यवरांनी सरस्वती पूजन द्वारे या परिषदेचे उद्घाटन केले. त्यानंतर राष्ट्रस्तरीय परिषदेसाठी लाभलेल्या मुख्य वक्त्या प्रा. श्वेता दरगड यांना परिसंस्थेच्या संचालिका डॉ. वैशाली पाटील यांच्या हस्ते स्मृती चिन्ह व पुष्पगुच्छ देऊन सन्मानित करण्यात आले. या परिषदेची प्रस्तावना डॉ.अमित पाटील यांनी सादर केली. संचालिका डॉ. वैशाली पाटील यांनी इंटेलिजेंट कॉम्प्युटिंग मधील प्रगती या विषयावर सविस्तर माहिती

दिली. श्वेता दरगड यांनी सायबर सिक्युरिटी, सायबर वॉरफेअर, सायबर थ्रेट लँडस्केप, केस स्टडीज काय आहे या विषयावर पीपीटी द्वारे सविस्तर माहिती दिली. परिषदेला एकूण १२५ विद्यार्थी, स्टाफ, रिसर्चर हे ऑनलाईन आणि ऑफलाईन मोड मध्ये उपस्थित होते. विद्यार्थी, स्टाफ, रिसर्चर यांनी ऑनलाईन आणि ऑफलाईन मोड मध्ये विविध विषयावर जसे डीप लर्निंग आणि न्यूरल नेटवर्क्स, डेटा सायन्स, नॅचरल लँग्वेज प्रोसेसिंग, बिग डेटा आणि डेटा नालिटिक्स, सायबर सुरक्षा आणि गोपनीयता, आयओटी आणि एम्बेडेड सिस्टम्स, कॉम्प्युटर व्हिजन आणि इमेज प्रोसेसिंग, डिजिटल हेल्थ टेक्नॉलॉजीज, रोबोटिक्स आणि ऑटोमेशन, ए.आय.एम. एल., क्लाउड कॉम्प्युटिंग इ. रिसर्च पेपर सादर केले. या परिषदेच्या शेवटी प्रा. श्वेता दरगड व सहभागी, विद्यार्थी, स्टाफ, रिसर्चर यांनी उत्कृष्ट आयोजन आणि अद्यावत रिसर्च संबंधी ज्ञान प्राप्त झाले असा अभिप्राय नोंदविला. परिषदेच्या यशस्वितेसाठी परिसंस्थेच्या संचालिका डॉ. वैशाली पाटील, एम.सी.ए. व इंटिग्रेटेड एम.सी.ए. विभागप्रमुख प्रा.मनोज बेहेरे, आय. क्यू.ए.सी. विभागप्रमुख डॉ. मनोज पटेल, पदवी विभागप्रमुख डॉ. तुषार पटेल यांच्या मार्गदर्शनाखाली डॉ. मनोज सोनवणे, डॉ. अमित पाटील, प्रा. विठ्ठल पाटील, प्रा. अर्चना जडे, प्रा. विशाल पवार, प्रा. छाया पाटील, प्रा. रोहिणी पाटील, प्रा. राहुल बडगुजर, प्रा. धनश्री पाटील, प्रा. दिपाली न्हाळदे, प्रा . हर्षदा चौधरी, प्रा. विशाखा मगर, प्रा. सुचिता जाधव, प्रा. भाग्यश्री पाटील, प्रा. ऐश्वर्या पाटील, यांचे सहकार्य लाभले.

# आर.सी.पटेल आयएमआरडी परिसंस्थेत २३ मार्चला एक दिवसीय नॅशनल कॉन्फरन्स

(युनायटेड खान्देश न्यूज)

शरपूर,दि.२१- येथील आर. सी.पटेल एज्युकेशनल ट्रस्ट संचलित इन्स्टिट्यूट ऑफ मॅनेजमेण्ट रिसर्च अँड डेव्हलपमेंट परिसंस्थेत इंटेलिजेंट कॉम्प्युटिंग मधील प्रगती या विषयावर एक दिवसीय नॅशनल कॉन्फरन्स (ऑनलाईन/ऑफलाईन) २३ मार्च रोजी होणार आहे.

या एक दिवसीय कॉन्फरन्सला कबचौ उत्तर महाराष्ट्र विद्यापीठ, जळगाव डायरेक्टर डॉ. सतीष कोल्हे हे उदघाटक व मुख्य वक्ता तसेच पुणे येथील सिम्बायोसिस स्किल्स ॲण्ड प्रोफेशनल युनिव्हर्सिटीचे प्रा. श्वेता दरगड सेशन चेअर म्हणुन उपस्थित राहणार आहेत.

विद्यार्थी, स्टाफ, रिसर्चर हे ऑनलाईन किंवा ऑफलाईन मोड मध्ये उपस्थित राहु शकतात. या कॉन्फरन्सच्या माध्यमातुन विद्यार्थी, स्टाफ, रिसर्चर हे आपल्या विषयातील नविन संशोधन पेपर सादरीकरण करतील. तसेच विद्यार्थी, स्टाफ, रिसर्चर यांनी जास्तीत जास्त संख्येने उपस्थित राहण्याचे आवाहन परिषद अध्यक्षा व संचालिका डॉ. वैशाली पाटील यांनी केले आहे. एक दिवसीय नॅशनल कॉन्फरन्स एस.एम.पटेल ऑडिटोरियम हॉल, आर. सी.पटेल आय.एम.आर.डी. परिसंस्थेत आयोजित करण्यात आले आहे.

तरी इच्छुकांनी सहभागी होण्यासाठी आरसीपीआयएमआरडी या वेबसाईटवर रजिस्ट्रेशन करावे तसेच रिसर्च पेपर ई-मेल आयडीवर २१ मार्चपर्यंत पाठवावे. अधिक माहितीसाठी ९५४५०१७२१८, ९९२२५५०८०४ या नंबरवर संपर्क साधावा असे आवाहन करण्यात आले आहे.

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# 'इंटेलिजेंट कॉम्प्युटिंग मधील प्रगती' या विषयावर नॅशनल कॉन्फरन्स संपन्न

देशोन्नती वृत्तसंकलन...

**शिरपूर** ■ शिरपूर : येथील आर.सी.पटेल एज्युकेशनल ट्रस्ट संचलित इन्स्टिट्यूट ऑफ मॅनेजमेण्ट रिसर्च अँड डेव्हलपमेंट परिसंस्थेत 'इंटेलिजेंट कॉम्प्युटिंग मधील प्रगती' या विषयावर एक दिवसीय नॅशनल कॉन्फरन्स (ऑनलाईन/ऑफलाईन) संपन्न झाली.

कॉन्फरन्सला परिषद अध्यक्षा व आर.सी.पटेल आय.एम.आर.डी. संचालिका डॉ. वैशाली पाटील हे स्थान चेअर तसेच पुणे येथील सिम्बायोसिस स्किल्स अँण्ड प्रोफेशनल युनिव्हर्सिटीचे प्राध्यापक श्रेता दरगड उपाध्याक्ष व मुख्य वक्ता म्हणुन उपस्थित होते. सुरुवातीला मान्यवरांनी सरस्वती पूजन द्वारे या परिषदेचे उद्घाटन केले. त्यानंतर राष्ट्रसंरीय परिषदेसाठी लागलेल्या मुख्य वक्त्या प्रा. श्रेता दरगड यांना परिसंस्थेच्या संचालिका डॉ. वैशाली पाटील यांच्या हस्ते स्मृती चिन्ह व पुष्पगुच्छ देऊन सन्मानित करण्यात आले. या परिषदेची प्रस्तावना डॉ.अमित पाटील यांनी सादर केली.



संचालिका डॉ. वैशाली पाटील यांनी इंटेलिजेंट कॉम्प्युटिंग मधील प्रगती या विषयावर सविस्तर माहिती दिली. श्रेता दरगड यांनी सायबर सिक्युरिटी, सायबर वॉरफेअर, सायबर थ्रेट लँडस्केप, केस स्टडीज काय आहे या विषयावर पीपीटी द्वारे सविस्तर माहिती दिली. परिषदेला एकूण १२५ विद्यार्थी, स्टाफ, रिसर्चर हे ऑनलाईन आणि ऑफलाईन मोड मध्ये उपस्थित होते.

विद्यार्थी, स्टाफ, रिसर्चर यांनी ऑनलाईन आणि ऑफलाईन मोड मध्ये विविध विषयावर जसे डीप लर्निंग आणि न्यूरल नेटवर्क्स, डेटा सायन्स, नॅचरल लँग्वेज प्रोसेसिंग, बिग डेटा आणि डेटा ॲनलिटिक्स, सायबर सुरक्षा आणि गोपनीयता, आयओटी आणि एम्बेडेड सिस्टम्स, कॉम्प्युटर व्हिजन आणि इमेज प्रोसेसिंग, डिजिटल हेल्थ टेक्नॉलॉजीज, रोबोटिक्स आणि ऑटोमेशन, ए.आय.एम.एल., क्लाउड कॉम्प्युटिंग इ. रिसर्च पेपर सादर केले. या परिषदेच्या शेवटी प्रा. श्रेता दरगड व सहभागी, विद्यार्थी, स्टाफ, रिसर्चर यांनी उत्कृष्ट आयोजन आणि अद्यावत रिसर्च संबंधी ज्ञान प्राप्त झाले असा अभिप्राय नोंदविला.

परिषदेच्या यशस्वितेसाठी परिसंस्थेच्या संचालिका डॉ. वैशाली पाटील, एम.सी.ए. व इंटिग्रेटेड एम.सी.ए. विभागप्रमुख प्रा.मनोज बेहेरे, आय.क्यू.ए.सी. विभागप्रमुख डॉ. मनोज पटेल, पदवी विभागप्रमुख डॉ. तुषार पटेल यांच्या मार्गदर्शनाखाली डॉ. मनोज सोनवणे, डॉ. अमित पाटील, प्रा. विठ्ठल पाटील, प्रा. अर्चना जडे, प्रा. विशाल पवार, प्रा. छाया पाटील, प्रा. रोहिणी पाटील, प्रा. राहुल बडगुजर, प्रा. धनश्री पाटील, प्रा. विपाली न्हाळदे, प्रा . हर्षदा चौधरी, प्रा. विशाखा मगर, प्रा. सुचिता जाधव, प्रा. मायश्री पाटील, प्रा. ऐश्वर्या पाटील, विश्वेर सोनवणे, धीरज शेटे, दीपक वेरिक, सलमान पिंजारी यांचे सहकार्य लाभले.


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