

# NEWSLETTER





### AN OFFICIAL E-NEWSLETTER OF DEPARTMENT OF COMPUTER SCINECE

From the Desk of Editor: Exploring Excellence: Inside the November 2023 Computer Science Newsletter



Welcome to the latest edition of November month newsletter of Department of Computer Science and Engineering. I trust this message finds you all in good health and high spirits. As we approach the end of another fruitful semester, I want to take a moment to reflect on the remarkable achievements and strides our department has made in the current. This edition encapsulates the diverse happenings within our department and the wider COER University community. From extending heartfelt 26th foundation day greetings from our Hon'ble Chancellor to exploring professions impervious to Computer Science, from enhancing communication and feedback through the presentation of our department newsletter to highlighting key takeaways from the 2nd Mid Term examination to End term practical examinations, there is something for everyone.

Our commitment to excellence in research, teaching, and innovation has been at the forefront of our endeavors. The dedication and hard work of our faculty, staff, and students have been instrumental in shaping the success we celebrate today.

In the realm of research, our department has continued to push boundaries and explore new frontiers. Our faculty members have made significant contributions to cutting-edge research projects, and their work has been recognized and published in renowned journals and conferences, out-reach activities.

On the academic front, our students have once again demonstrated their intellectual prowess and passion for learning. Their achievements, both in and outside the classroom, have brought recognition to our department and strengthened our reputation for producing top-tier graduates. I am immensely proud of the collaborative and supportive learning environment that characterizes our department.

Innovation has been a key driver for us, and our students have been at the forefront of various hackathons, competitions, and entrepreneurial ventures. Their creativity and problem-solving skills showcase the practical applications of the knowledge they acquire in our classrooms.

Looking ahead, I am excited about the future of our department. We will continue to evolve and adapt to the ever-changing landscape of computer science and engineering, ensuring that our students are well-prepared for the challenges and opportunities that lie ahead.

There is a healthy work-culture and the students are eager to coup with the changes and demands of the Industry and Society. The Department goal is to provide students with a balance of intellectual and practical experiences that enable them to serve a I want to express my deepest gratitude to each member of the

Computer Science and Engineering Department for your dedication, hard work, and passion. Together, we have built a community that thrives on collaboration and excellence.

I also want to express my sincere gratitude to our supportive and visionary management for your guidance throughout the academic journey. You motivated us when challenges arose and gave us the encouragement we needed. Without your help, we know it wouldn't have been such a success. Thank you for being such a great support.

As we celebrate our achievements and look toward the future, let us remain committed to the principles that define us—a commitment to knowledge, innovation, and the relentless pursuit of excellence.

This newsletter is a testament to our department's unwavering commitment to excellence, innovation, and continuous growth. We invite you to immerse yourself in the stories, experiences, and achievements that define us as a community of forward-thinkers and educators. Thank you for being part of our journey, and we hope you find inspiration in the pages that follow.

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(Dr. Kamal Kant Verma)

HOD, Department of Computer Science Engineering, College of Smart Computing, COER University

Greetings on 26<sup>th</sup> Foundation Day from Hon'ble Chancellor,COER University



### Dear Readers,

Let me welcome you to our Fold!

The future leaders and productive citizens of the world, I would like to stress on our mission statement of grooming young minds and hearts as the pillar of advancement of a nation and hope of the future.

Having been builders for over 25 years, we understand that a building is as strong as its Foundation. A strong foundation for our children with Indian values will create future leaders for the emerging knowledge economy. As an established and highly esteemed institution, we maintain an utmost academic standard, incorporated with the conduct of discipline, thereby achieving remarkable and excellent percentage of results.

And as your educational institution, we will support students in achieving those golden ambitions and also ensure that their stay in the college is meaningful and fruitful as well.



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Modern Technology blended with Indian Value System will create global citizens who can make purposeful contribution to human race. This is our humble contribution to society.

Successful and happy individuals build a successful nation.

Warm regards,

Of the same

Shri. J. C. Jain

Chancellor, COER University

### **Computer Science an Era of Revolutionary Technologies**

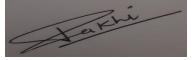


Computing is changing the way we think and work, and plays a significant role not only in solving different kinds of engineering and technological problems but also in satisfying societal needs. It is crucial to stay up-to-date with the recent trends and advancements in computer science engineering. Today, technology plays a pivotal role in various industries, and computer science is at the forefront of innovation.

From artificial intelligence and machine learning to data science and cybersecurity, the possibilities are expanding every day. Computer science engineering offers numerous opportunities for professionals to contribute to the development of revolutionary technologies. By harnessing the power of cutting-edge tools and methodologies, computer scientists can bring about significant advancements in various sectors, such as healthcare, finance, and transportation.

Looking towards the future, the scope of computer science engineering is boundless. As technology continues to evolve, there will be an increased demand for skilled individuals who can design and implement robust systems, analyze vast amounts of data, and develop secure networks. The future of computer science engineering lies in exploring emerging fields like quantum computing, Internet of Things (IoT), and blockchain technology. Research is a fundamental aspect of computer science engineering. Through research, we can address pressing challenges, create innovative solutions, and push the boundaries of what is possible. By engaging in research, students and professionals alike can contribute to the collective knowledge of the field and drive advancements that shape our future. In conclusion, computer science engineering is experiencing a remarkable surge in recent years.

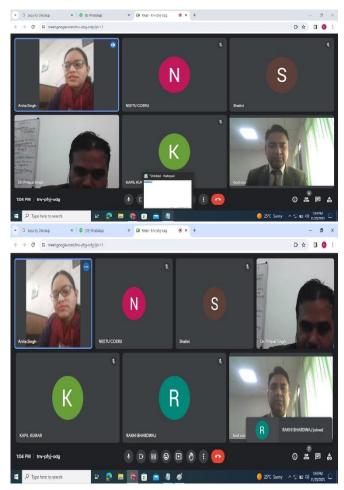
By embracing the latest trends, understanding the applications of technology, recognizing the future scope, and emphasizing the importance of research, we can prepare the next generation of computer scientists for a successful and impactful career.



(Dr. Rakhi Bhardwaj)
Asst. Professor, Dept. of Computer Science Engineering

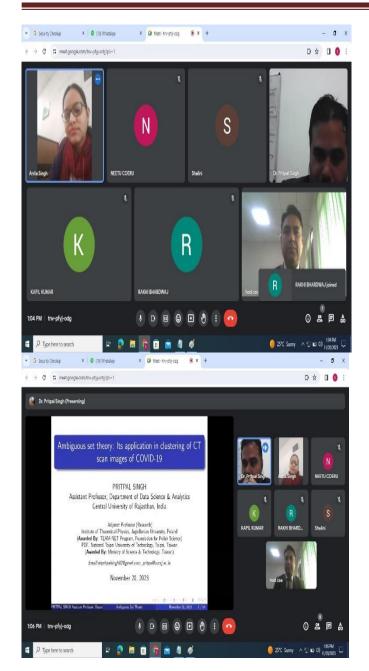
## Expert talk on Ambiguous set theory its application in clustering of CT-scan images of COVID-19

On November 20, 2023, Computer science & Engineering Department of COER University hosted a captivating Expert Talk for B.Tech 2nd-year students and faculty members featuring Prof. Dr. Pritpal Singh, PhD (CSE), an Assistant Professor in the Department of Data Science and Analytics at the School of Mathematics, Statistics, and Computational Sciences, Central University of Rajasthan, India. The event focused on the intriguing topic of "Ambiguous Set Theory: Its Application in Clustering of CT Scan Images of COVID-19."





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Prof. Singh demonstrated the relevance and potential applications of Ambiguous Set Theory in the crucial field of healthcare, particularly in the clustering of CT scan images related to COVID-19.

The talk provided practical insights into the utilization of mathematical models for real-world problem-solving, emphasizing the importance of interdisciplinary approaches.

The interactive nature of the session facilitated a fruitful exchange of ideas, with participants gaining a deeper understanding of the subject Students and faculty members gained interdisciplinary insights, understanding the crucial role of mathematical models in the healthcare domain.

### **The Women Scientist Conclave-2023**

The Women Scientists Conclave-2023, organized by Uttarakhand Science Education and Research Center (USRC), took place on November 22, 2023, at IRDT, Dehradun. The event aimed to highlight the significant role of women in science and foster a platform for innovation, knowledge exchange, and sustainable solutions. The conclave addressed the importance of women's participation in the development of society and the integration of traditional knowledge with modern science.

Six distinguished members from our college had the privilege to attend the Women Scientists Conclave-2023 organized by Uttarakhand Science Education and Research Center (USRC) on November 22, 2023, at IRDT, Dehradun.

The program commenced with a warm welcome by Prof. (Dr.) Anita Rawat, Director of USRC. Prof. Rawat emphasized the crucial role of women in achieving sustainable, holistic, and coordinated development. She highlighted the conclave's objective to encourage inclusive and accessible quality education, gender equality, and the empowerment of women and girls. Mrs. Anita Assistant Professor from CSE department attended the program





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## **Conference on Innovation and Intellectual Property Rights for Multidisciplinary Research**

Mr. Kapil Kumar Assistant Professor of the Department headed a conference as a session chair





## World Journal of Advanced Engineering Technology and Sciences, 2023.

Mr. Kapil Kumar published a paper in World Journal of Advanced Engineering Technology and Sciences, 2023. The paper was all about Comparative study on object detection in visual scenes using deep learning The paper also explores recent developments in object detection, including novel loss functions, neural architecture search (NAS), and advancements in handling challenging conditions like occlusions and low lighting.

The paper provided references offer a comprehensive overview of the literature on object detection, making this paper a valuable resource for researchers and practitioners in the field.

### The successful completion of MOOC course



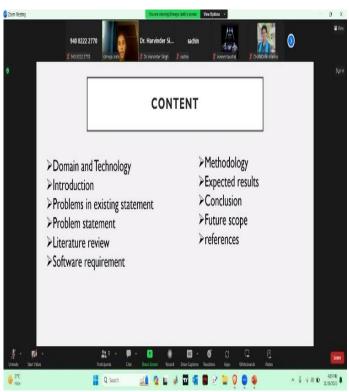


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## 4<sup>th</sup> international Conference on Machine Learning, Advances in Computing, Renewable energy and communication (MARC-2023).

Dr. Kamal Kant Verma and Ms. Shalini presented a paper in online mode at the conference conducted by GLOCAL University Saharanpur.



#### People counting via Supervised learning-based 2dCNN-LR Model in Complex Crowd Images

Ankit Tomar<sup>1</sup>, Kamal Kant Verma<sup>2</sup>, and Pramod Kumar<sup>3</sup>

Graphic Era Deemed to Be University, Debradun
College of Smart Computing, COER, University Roorker
Glocal University, Salaranpur

Abstract. Foods counting from images can be a narrard action, but automated tracking a individuals and counting through a machine-bearing mode is a big calculate. For an intelligendial control of the counting through a machine-bearing mode is a big calculate. For an intelligential is increasing the counting metallic description of the cross is desired and fail. It is increasing the counting metallic description of the cross is desired and in the below information. The evisiting people-counting metallic description of the practical storage is a superior of the counting through the counting of the cross of the practical storage is a superior of the counting through the counting of the softening of the counting of the count

#### I Introduction

In artificial intelligence (AI), sandysis of crowd behavior is a burning issue, which has gained interest in computer vision, preveloody, so-solodogy, and rises) searching to fill its profileration. An efficient crowd gestion namagement systems, intensive business, and the current business retail systems. Still, we are counting the people from imaged/videos, which is not practical as one fulls to get an approximation in dense crowd samples having the souns beekground and people attributes, Auch popularity is introtuction of the control of

Anomalous activity recognition is crucial in various orban applications, including claywide pedes trium management, smart transport systems, and intelligent traffice control. Crowd-valot accidents like the tragic stampete in Maksich in 2015 resulting in 2256 deaths, underscore the need for effect they crowd management. Administration faces the challenge of preventing accidents by monitoring their crowdrod places, such as at temples or during public cevary, necessitate systems capable or detecting absorbing manual crowd monitoring systems at key locations like exhibitions, airports railway stations, and streets to practively disperse crowds and prevent disasters. Addressing issue like people walking on sebra crossings in city lanes is mostler benefit of such crowd monitoring systems. [3]. Crowd-counting plays a physical role in enhancing lumans askey and re-destrictation, particularly in large-scale event files the Kumbal/Kamwar fair. The initial step in developing any crowd-monitoring speam is people deathy, from the control of the control of the continuity algorithms are controlled in the control of the control o

### **Clothes Donation Program**

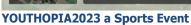
A "Clothes Donation Program" has been organized by "Department of Computer Science and Engineering College of Smart Computing" on date 28<sup>th</sup> Nov. 2023. Department has delivered clothes to staff members of COER University, Roorkee, Haridwar.





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Harsh Vardhan Singh from B Tech CSE 1<sup>st</sup> year Section A participated in YOUTHOPIA 2023 a Sports event which was held in DIT University, Dehradun. He has been awarded with first prize in ROBO SOCCER.





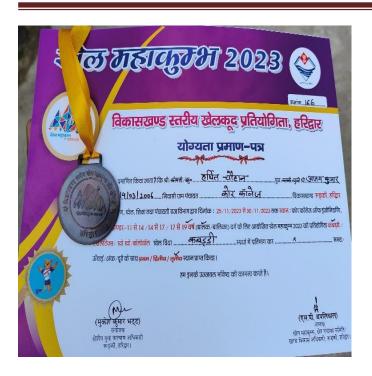
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**Harshit Chauhan** B Tech CSE 1<sup>st</sup> year Section got a first prize in kabaddi under 19 kabaddi tournaments at Block level.





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### **Forthcoming in December 2023**

- 1. Alumni Meet on 2<sup>nd</sup> Dec 2023.
- 2. Celebration of 25<sup>th</sup> Foundation Day on 3<sup>rd</sup> Dec 2023.
- 3. Notes making marathon from 4-8<sup>th</sup> Dec 2023
- 4. End term semester examination.

Thank you for being a part of our journey! Stay vigilant, stay secure and stay connected with us for more updates and insights. Until next time, keep your digital world safe!

We are constantly striving for excellence and value your input. Please feel free to share your feedback and suggestions with us at

hod.cse@coeruniversity.ac.in.

Your insights are important to us.