Babu Banarsi Das Institute of Technology and Management, Lucknow

International Conference on
International Conference on Advances in Emerging Trends in Computer Applications
(ICAETC-2023)
December 21-22, 2023
Organized by
Computer Science and Technology Department

Program Report

Introduction

The International Conference on Advances in Emerging Trends in Computer Applications (ICAETC-2023) concluded successfully, marking a momentous gathering of experts, scholars, and enthusiasts from around the world. The conference, held from **21-22 December 2023**, provided a platform for the exchange of knowledge, ideas, and innovations in the ever-evolving field of computer applications. This report aims to reflect on the conference's key highlights, contributions, and the dedicated individuals who made it possible.

Reflecting on a Successful ICAETC-2023

As we wrap up the International Conference on Advances in Emerging Trends in Computer Applications (ICAETC-2023), we are filled with gratitude for the moments of learning and innovation shared.

Conference started with welcome speech delivered by **Prof. (Dr) Manuj Darbari** R & D Head BBDITM, Lucknow. **Dr. S. S. Chauhan,** Director, addressed the gathering stating that we are living in exciting time in which the world has become more connected than ever before. While networking technologies have evolved at an impressive pace over the last decade, it is the IT industry which has made the real changes: the social networks, the mobile services, and the move to cloud based architectures, which introduced new needs and wants, and drove the high-tech industry to new heights. He said that the main aim of the conference is to bring together researchers, scientists, industry leaders, and managers from almost every corner of the country and abroad to share ideas to stimulate discussions in the area of software and computer applications. **Dr. Anurag Tiwari,** Head, Dept. of CSE and Convenor, ICAETC-2023 has presented the theme of the conference.

Here are some of the distinguished keynote highlights:

- **Celestine Iwendi, PhD (University of Bolton, UK)**: Dr. Iwendi addressed the pressing issue of security in the Internet of Things (IoT) by discussing "Attack Prevention Using Machine Learning of IoT." His insights into leveraging machine learning for IoT security shed light on a critical concern in the technology landscape.

- **Victor Lopez-Cabrera (Universidad Tecnológica de Panamá, USA)**: Mr. Lopez-Cabrera's keynote, "Emergent Technology Applied in AI/ML for Latin America," provided valuable perspectives on the application of emerging technologies in the Latin American context, emphasizing the potential for growth and development.

- **Dr. Sandeep Shukla (IIT Kanpur)**: Dr. Shukla's presentation on "Cyber Crime and Cyber Fraud" delved into the ever-increasing challenges posed by cybercrime and fraud, offering insights into cybersecurity strategies and countermeasures.

- **Dr. Meenu Khurana (Chitkara University)**: Dr. Khurana explored the transformative impact of 5G on data-driven applications in her keynote, "5G Impacting the Data Driven Applications." This presentation highlighted the profound changes that 5G technology is bringing to the realm of data analytics.

- **Dr. Surya Prasath (University of Cincinnati, USA)**: Dr. Prasath's presentation, "Sparks of an AI Lab - Bio + Medical Imaging to Computational Biology," showcased the remarkable strides made in the intersection of AI, medical imaging, and computational biology, promising breakthroughs in healthcare.

- **Prashant R. Nair (Amrita Vishwa Vidyapeetham University)**: Mr. Nair's contribution centered on innovative research approaches, fostering a culture of creativity and exploration in computer applications.

Our deepest appreciation goes to the 46 session chairs and 92 reviewers for their dedication to reviewing 240 papers, leading to the presentation of 136 papers. Your commitment has been the cornerstone of the conference's success.

Minute to Minute Programme –

<table>
<tr><td colspan="3" align="center">

INAUGURAL SESSION

</td></tr>
<tr><td align="center">**Time Line**</td><td align="center">**Activity**</td><td align="center">**Presenter or Concern Personal**</td></tr>
<tr><td>10:00-10:03</td><td>Welcome Address</td><td>Prof.(Dr) Manuj Darbari R & D Head BBDITM, Lucknow</td></tr>
<tr><td>10:03-10:05</td><td>Lightning the lamp</td><td>Chief Executive Director (BBD Educational Group), Chief Guest, Guest of Honours, Director, Convenor, Head (R&D)</td></tr>
<tr><td rowspan="4">10:05-10:10</td><td colspan="2" align="center">**Memento & Bouquet to Chief Guest & Guest of Honours**</td></tr>
<tr><td>Dr Sidharth Chaurasia-Head AI and Cloud,Sr.Scientist, Tata Consultancy Services</td><td>Sh. R. K Agarwal- Chief Executive Director (BBD Educational Group)</td></tr>
<tr><td>Mr Abhishek Saxena -Head Academic Interface-UP & Rajasthan, Tata Consultancy Services</td><td>Dr. Shailendra Singh Chauhan (Director BBDITM)</td></tr>
<tr><td>Dr Ghanshyam Shivhare-Dy. Director,National Institute of Electronics & InformationTechnology,</td><td>Dr.Anurag Tiwari (Head CSE & Convenor)</td></tr>
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	Lucknow	
	Mr Tanveer Noor,Head UI-UX,Apple InC. USA	Dr. Manuj Darbari (Professor CSE- R&D Head-BBDITM)
10:10-10:15	Ganesh Vandana	Student Group
10:15-10:20	Address by Director	Dr. S.S. Chauhan, Director BBDITM, Lucknow
10:20-10:22	About the Conference	Dr. Anurag Tiwari, Associate Professor & Head, Dept. of CSE, Convernor,ICAETC-2023
10:23 10:40	Address by: Chief Guest	Dr. Siddharth Chaurasia Head AI and Cloud, Sr. Scientist Tata Consultancy Services
10:40 10:55	Address by: Guest of Honor	Mr. Abhishek Saxena, Head Academic Interface- UP & Rajasthan ,Tata Consultancy Services
11:00 11:25	Address by Keynote Talk (Online)	Dr. Celestine Iwendi, Professor, University of Bolton, UK
11:30-11:50	Address by Keynote Talk (Online)	Prof. Victor Lopez Cabrera ,Technological University of Panama, USA
11:55- 12:20	**High Tea**	

Contributions and Impact

ICAETC-2023 witnessed the presentation of 136 research papers, a testament to the wealth of knowledge and innovation in the field. These papers covered a wide array of topics, including IoT security, AI/ML applications, cybersecurity, 5G technology, and medical imaging. The conference's success was due in large part to the dedication and expertise of the 46 session chairs and 92 reviewers who rigorously evaluated and facilitated the presentation of these papers. Their invaluable contributions ensured the quality and relevance of the conference content.

Acknowledgments

A heartfelt appreciation goes out to the entire organizing team and management for their meticulous planning and execution of ICAETC-2023. Their efforts were instrumental in orchestrating a seamless and impactful event that brought together participants from diverse backgrounds and regions.

Conclusion

In conclusion, the International Conference on Advances in Emerging Trends in Computer Applications (ICAETC-2023) was a resounding success. The insights shared by distinguished keynote speakers, the wealth of research papers presented, and the dedication of session chairs and reviewers all contributed to its significance. ICAETC-2023 not only expanded our understanding of emerging trends in computer applications but also fostered collaboration and innovation that will undoubtedly shape the future of technology. Here's to future endeavours and the continued advancement of computer applications in the years to come.

The outcome of the International Conference on Advances in Emerging Trends in Computer Applications (ICAETC-2023) can be summarized as follows:

1. **Knowledge Dissemination:** ICAETC-2023 served as a platform for the dissemination of cutting-edge knowledge and research in the field of computer applications. Attendees gained insights into the latest trends, technologies, and advancements, enhancing their understanding of the rapidly evolving landscape.

2. **Innovation and Collaboration:** The conference fostered an environment of innovation and collaboration. Researchers, academics, and industry professionals had the opportunity to exchange ideas, share innovative approaches, and explore potential collaborations. This cross-pollination of ideas is likely to lead to future research projects and initiatives.

3. **Networking:** Participants had the chance to network with peers, experts, and industry leaders. These connections can be invaluable for future research partnerships, career opportunities, and professional growth.

4. **Inspiration:** Keynote speakers and presenters shared their expertise and experiences, inspiring attendees to think critically and creatively. The insights from these sessions are expected to inspire new research directions and problem-solving approaches.

5. **Research Contributions:** The presentation of 136 research papers and the rigorous review process by session chairs and reviewers contributed to the academic community's knowledge base. The conference provided a platform for researchers to showcase their work and receive constructive feedback.

6. **Practical Applications:** Many of the topics discussed, such as IoT security, AI/ML applications, cybersecurity, 5G technology, and medical imaging, have practical applications in various industries. Attendees gained practical knowledge that can be applied in real-world scenarios.

7. **Global Perspective:** With participants and presenters from diverse backgrounds and regions, ICAETC-2023 offered a global perspective on computer applications. This global outlook is essential in today's interconnected world and can lead to more robust and inclusive solutions.

8. **Continued Collaboration:** The conference encouraged continued collaboration among academia, industry, and research institutions. Collaborative efforts initiated at the conference are likely to yield fruitful results in the future.

9. **Education and Skill Enhancement:** Attendees had the opportunity to enhance their skills and knowledge, which is crucial in a field as dynamic as computer applications. This conference contributed to ongoing education and professional development.

10. **Future Research and Development:** The insights and discussions at ICAETC-2023 are expected to shape future research and development efforts in the field of computer applications. Attendees left the conference with new ideas and perspectives that will influence their future work.

Some Glimpses of the Conference