International Conferenc on Recent Advances in Artificial Intelligence, Communication, and Electronic Systems RAICE-2025

ORGANISED BY
Department of Electronics and Communication Engineering & Research and Development cell
Bharati Vidyapeeth's College of Engineering, New Delhi
5th – 7th February 2025

************** CALL FOR SPECIAL SESSION *************

SPECIAL SESSION ON: Advanced Computational techniques for Global Development and Social Welfare

SESSION ORGANIZERS:

Session Member 1: Dr. Deepika Varshney, Assistant Professor, Jaypee Institute of Information Technology, Noida deepika.varshney@mail.jiit.ac.in, deepikavarshney06@gmail.com
Session Member 2: Dr. Megha Rathi, Assistant Professor, Jaypee Institute of Information Technology, Noida, megha.rathi@mail.jiit.ac.in , drmegharathi.25@gmail.com

RECOMMENDED TOPICS:
Mention topics to be discussed in this special session (at least 10)
1. Neuromorphic Computing, Quantum Computing, Cloud Computing & Edge Computing, Blockchain and Cryptography, Optimization
2. IoT in Smart Cities and Agriculture, Fuzzy Systems in Data Mining, Database Security and Privacy
3. Augmented Reality (AR), Techniques for Image Forgery Detection, Social Media Impact on Image Forgery
4. Trustworthy AI: Explainability, Fairness, and Ethical AI Systems, DBMS Trends for secure cloud AI solution
5. AI for Climate Action and Environmental Sustainability Geospatial Analytics

SESSION DESCRIPTION:

Advanced Computational Techniques encompass a broad spectrum of cutting-edge approaches, techniques, and technologies that utilize computing power to address challenging issues in a variety of sectors. These methods are often scalable, data-driven, and useful for solving problems
in the real world. Advanced Computational algorithms and data-driven approaches combined with sophisticated

computational tools are revolutionizing the way complicated problems are approached in a variety of sectors. Innovations in fields like healthcare, finance, and environmental research are fuelled by the ability to discover patterns from large datasets through machine learning (ML) and deep learning (DL). Another horizon that holds promise for solving cryptography and optimisation issues that are beyond the capabilities of conventional computers is quantum computing. Large volumes of data can be processed in real time and scalable ways using big data analytics and cloud computing, while edge computing moves processing capacity closer to data sources to facilitate quicker decision-making. While artificial intelligence (AI) methods like computer vision and natural language processing (NLP) enable automation in fields like medical diagnostics and language translation, blockchain technology guarantees safe, decentralized data management.

The proposed session " Advanced Computational techniques for Global Development and Social Welfare." is a timely and impactful addition to a RAICE conference. The Session will explore the most recent developments in computational techniques, emphasizing how machine learning, data-driven strategies, and creative AI solutions are being applied to major societal and environmental issues. This session looks at how social welfare and international development are changing as a result of advanced computational methods. The fast growth of machine learning, artificial intelligence, geospatial analytics, and data science approaches has offered new opportunities for addressing difficult social concerns. The use of big data for sustainable development, social impact predictions, the integration of sophisticated computational models for resource allocation in developing nations, and the application of AI and predictive analytics in public health are among the topics covered. This session will demonstrate how computational tools can drive effective interventions in healthcare, education, disaster management, and poverty reduction through case studies and real-world applications. This will empower policymakers, researchers, and practitioners to create a more sustainable and equitable future.

A broad spectrum of participants, including researchers, academicians, students, social impact innovators, legislators, environmentalists, and community leaders, and IT leaders will be served by the proposed session. It will focus on optimized solutions that advance societal good and sustainability, bridging the gap between technical and non-technical stakeholders. The

multidisciplinary approach of the session will promote cross-sector collaboration while showcasing computational capacity to responsibly and inclusively address global concerns

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for the special session on **[Advanced Computational techniques for Global Development and Social Welfare] on or before [15th October 2024]**.

All submissions must be original and may not be under review by any another publication. INTERESTED AUTHORS SHOULD FOLLOW THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS.

All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting a paper in the special session, please specify [**Advanced Computational techniques for Global Development and Social Welfar**] at the top (above paper title) of the first page of your paper.

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