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: Machine Learning for Enhanced Network Performance and Security

SESSION ORGANIZERS:

Session Member 1:
Dr. Nitima Malsa, Assistant Professor, JSS Academy of Technical Education, Noida
nitimamalsa@jssaten.ac.in

Session Member 2:
Mr. Vimal Gupta, Assistant Professor, JSS Academy of Technical Education, Noida
vimalgupta@jssaten.ac.in

Session Member 3:
Dr. Gyanendra kumar, Assistant Professor, Manipal University Jaipur, India
maurya.gyanendra@gmail.com

Session Member 4:
Dr. Sur Singh Rawat, Assistant Professor, JSS Academy of Technical Education, Noida
sur.rawat@jssaten.ac.in

RECOMMENDEDTOPICS:
Mention topics to be discussed in this special session (at least 10)

1. Automated Machine Learning (AutoML)
2. Pre-trained Models and Transfer Learning
3. Cloud Computing and AI Services
4. Open Source Frameworks and Libraries
5. Educational Resources and Online Platforms
6. Advances in Computational Intelligence
7. Ethical and Responsible AI
8. AI for Social Good
9. Citizen Data Scientists

10. Low-Code/No-Code AI Platforms
11. Collaborative AI Development
12. Regulatory and Policy Aspects of AI

SESSION DESCRIPTION:(Description about the session in 500 words)

Computational intelligence (CI) encompasses various techniques and methodologies that enable systems to mimic human-like intelligence, including machine learning, neural networks, fuzzy systems, and evolutionary algorithms. This session explains machine learning models contribute to the democratisation of AI within the context of computational intelligence. The topics which will be covered in the proposed session highlights the intersection of machine learning, computational intelligence, and the democratization of AI, emphasizing how these technologies work together to make advanced AI more accessible and usable for a broader audience.

The proposed topic " **Machine Learning for Enhanced Network Performance and Security**" is an excellent fit for a Special Session at a RAICE conference. It will cover the latest advancements in AutoML, transfer learning, and cloud AI services, highlighting how these innovations are making AI more accessible. Topics such as low-code/no-code AI platforms and collaborative AI development reflect current trends that simplify and enhance AI development.

The session's emphasis on democratizing AI appeals to a wide range of sectors, including academia, industry, and government. It caters to the interests of a diverse audience, from AI researchers and practitioners to policymakers. The focus on AI for social good and ethical AI practices aligns with the growing emphasis on responsible AI development and its positive societal impact.

Additionally, the session will explore the intersection of AI with fields like education, ethics, policy, and community engagement, fostering a holistic understanding of AI's role in society. By presenting case studies and practical applications of democratized AI, the session offers actionable insights and inspiration for attendees to apply in their own work. Emphasizing tools and platforms that empower citizen data scientists and non-technical users encourages broader participation in AI, promoting a more inclusive AI community.

Overall, " **Machine Learning for Enhanced Network Performance and Security** " is a highly relevant and impactful topic for a Special Session at a conference on Recent Advances in AI. It addresses critical themes in the field, promotes inclusivity and accessibility, and aligns with current trends and challenges in AI development and application.

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for the special session on **[Machine Learning for Enhanced Network Performance and Security] on or before[15th September 2024]**.
All submissions must be original and maynot 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, peerreviewbasis.

NOTE: While submitting a paper in the special session, please specify [**Machine Learning for Enhanced Network Performance and Security**] at the top(above paper title) of the first page of your paper.