



**JHARKHAND**  
**Rai University**  
RANCHI

**RAISD 2025**

**ATLANTIS PRESS** **SPRINGER NATURE**

# **INTERNATIONAL CONFERENCE** **on** **“Recent Advances in Artificial Intelligence** **for Sustainable Development”**

**Date : 7 - 8 March, 2025**  
**(HYBRID MODE)**



**2025**

**[www.jru.edu.in](http://www.jru.edu.in)**

**Organized by**

Faculty of Computer Science Engineering  
and Information Technology,  
Jharkhand Rai University Ranchi, India



## About the University

Jharkhand Rai University (JRU) is one of the fastest growing Universities in the country situated in the state capital of Jharkhand, India, approved by UGC and accredited by NAAC. Since its inception in 2012, JRU has gained immense reputation for its outstanding achievements in academics, research and innovation. The spirit of novelty, modernization and student centric teaching – learning approach blended with a strong Mentorship Program is the corner - stone of academics at Jharkhand Rai University. The University focuses on a holistic education ecosystem, where the goal is not to make students just skilled professionals but also good human beings. The University offers Diplomas, Undergraduate Degrees, Postgraduate Degrees and Doctoral programs in different disciplines. JRU is located at Ranchi (a part of the Chotanagpur Plateau) and often called as the 'City of Waterfalls'. It is well connected by rails, roads and air. The temperature in Ranchi remains fairly good and varies from 16° to 31° during first week of March.

## KEYNOTE SPEAKERS



**Prof. Subodha Kumar**  
Temple University,  
Philadelphia, USA



**Dr. Eng. Zdzislaw Polkowski**  
Jan Wyzykowski University,  
Polkowice, Poland



**Prof. (Dr.) M N Bandyopadhyay**  
Former Director,  
NIT Kurukshetra & Calicut, India



**Dr. Dhruva Kumar**  
University of Malaya,  
Malaysia



**Dr. Uthayasanker Thayasivam**  
University of Moratuwa,  
Sri Lanka



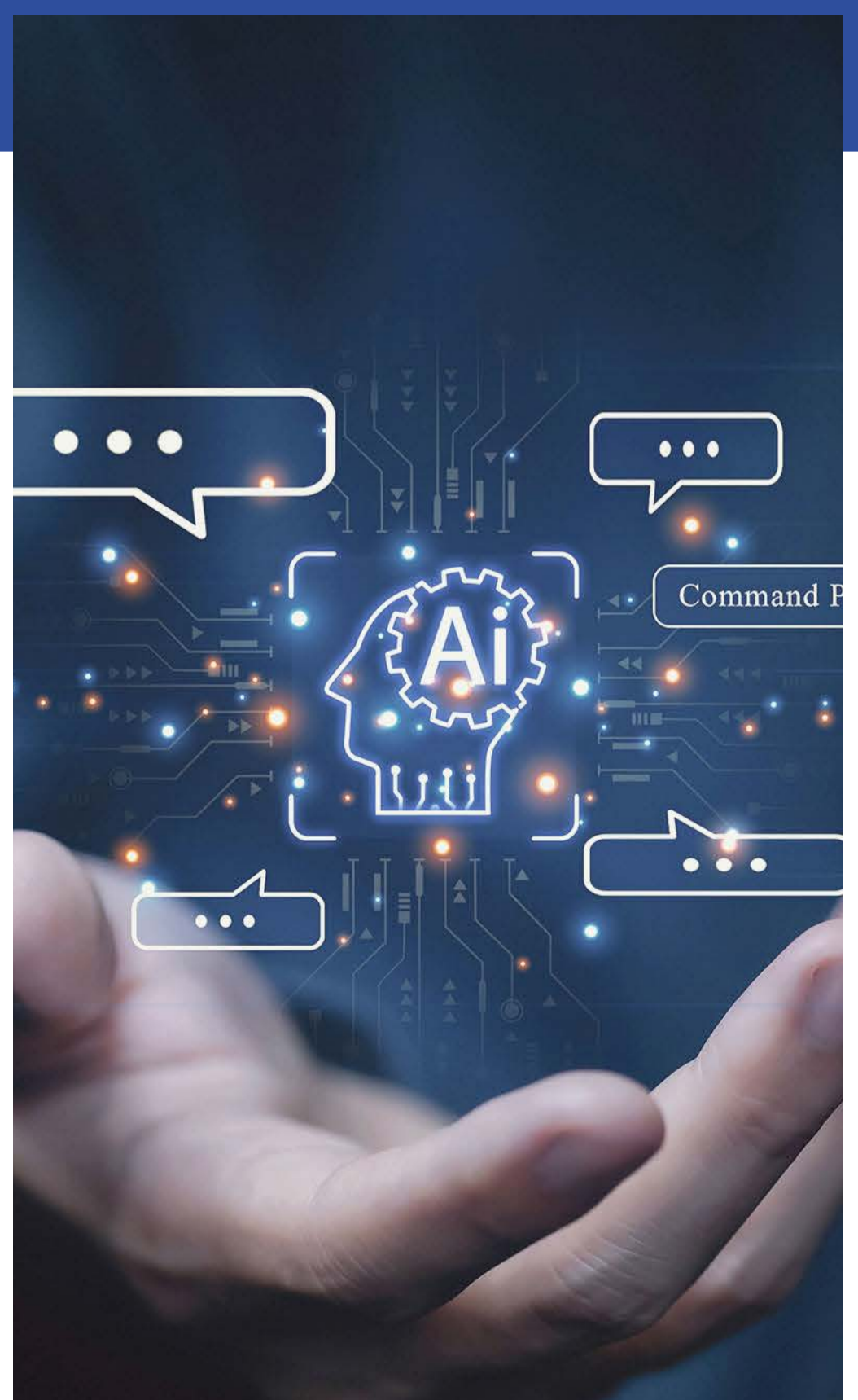
**Mohammad Iftekhar Ahmed**  
Tatweer Middle East & Africa LLC,  
Abu Dhabi, UAE

# About the Faculty

The Faculty of Computer Science Engineering and Information Technology (CSE &IT) established in 2013, plays a pivotal role in shaping the future of technology. It prepares graduates for leadership roles in both academia and high-tech industries by emphasizing interdisciplinary research and technical expertise. With a vision to transform the social and economic landscape through innovative computing, the department aims to bridge the digital divide and drive the progress towards an inclusive nation. Its mission focuses on integrating research, innovation, education, development, and industry collaboration, positioning itself to make significant contributions to the global technology sector while addressing local challenges. The department offers a range of academic programs, including BCA, MCA, Diploma in CSE, and B. Tech in CSE with specialization in Artificial Intelligence and Machine Learning, providing students with a robust foundation in computing. It fosters a dynamic environment where graduates are equipped to excel in academia or industry. Research efforts focus on key areas like Machine Learning, Deep Learning, Cloud Computing, Data Science, and Information Security, alongside interdisciplinary applications. For advanced learners, the department offers Ph.D. programme, nurturing innovators who are poised to make impactful contributions to the evolving field of Computer Science.

## About the Conference

International Conference on Recent Advances in Artificial Intelligence for Sustainable Development (RAISD) 2025 will be organized by the Faculty of CSE and IT at JRU Ranchi, India during 7-8 March 2025 in Hybrid Mode. The RAISD-2025 will provide a platform for a robust and involved interaction between academia, industry and researchers across the globe with an aim to bring together scholars, learners, academicians, practitioners and developers working in the multi-disciplinary areas of Science & Engineering, Agriculture, Healthcare & Bio-informatics, Management, Entrepreneurship and Indian Knowledge System focused to the application of Artificial Intelligence. The conference will witness keynote addresses, invited talks, panel discussions, and research paper presentations.



# CALL FOR PAPERS



The organizing committee of RAISD-2025 invites all professionals, practitioners, researchers, academicians, industry experts and students to submit their original, unpublished and high quality research articles which is neither published anywhere nor submitted concurrently to any journal or another conference in the area of Artificial Intelligence (AI). The Conference strives over the following topics (but not limited to):

## **Track 1: AI, ML, IOT, Cyber Security, Evolutionary algorithms, Optimization and Intelligent Computing in Science &Engineering**

### **Subtracks:**

- Artificial Intelligence (AI) in Science and Engineering
- Machine Learning (ML) in Optimization and Problem Solving
- Internet of Things (IoT) in Engineering
- Cyber security in Engineering Systems
- Evolutionary Algorithms in Optimization problems
- Optimization Techniques in Engineering
- Intelligent Computing in Science

## **Track 2: Applications of AI, IOT, ML, Robotics and Smart Devices in Agritech**

### **Subtracks:**

- AI in Agritech: Precision Farming, Pest and Disease Detection, Yield Prediction
- IoT in Agritech: Smart Irrigation Systems, Environmental Monitoring, Livestock Monitoring
- Machine Learning (ML) in Agritech: Predictive Analytics for Crop Yield, Supply Chain Optimization, Soil Health Monitoring
- Robotics in Agriculture: Automated Harvesting, Weed and Pest Control, Robotic Milking
- Smart Devices in Agritech: Smart Greenhouses, Drones for Aerial Surveillance, Wearables for Farmers

## **Track 3: AI, ML, Deep Learning, Neural Networks and IOT in Bioinformatics and Healthcare**

### **Subtracks:**

- Artificial Intelligence (AI) in Healthcare: Medical Imaging, Natural Language Processing (NLP)
- Machine Learning (ML) in Bioinformatics: Genomics and Proteomics, Drug Discovery
- Deep Learning (DL) in Healthcare: Image Recognition, Speech Recognition for Assistive Devices, Genomics
- Neural Networks in Personalized Medicine: Disease Prediction, Personalized Treatment Plans,
- IoT in Healthcare: Remote patient monitoring, wearable health devices, and smart healthcare systems, IOT healthcare wearable, Smart Hospitals

## **Track 4: Computational Intelligence and AI driven solutions in Management and Entrepreneurial Growth**

### **Subtracks:**

- Decision Support Systems (DSS)
- Predictive Analytics for Supply Chain Management
- Human Resource Management: AI-driven solutions in entrepreneurship
- Market Analysis and Opportunity Identification
- Personalized Marketing
- Funding and Investment Decisions

## **Track 5: Ancient Wisdom, Modern Solutions: AI perspective of Indian Knowledge Systems**

### **Subtracks:**

- Ayurveda and AI in Healthcare
- Vedanta and AI in Ethical AI
- Panchanga and AI in Predictive Analytics
- Yoga and AI in Mental Health
- Sanskrit and NLP (Natural Language Processing)
- VastuShastra and AI in Smart Cities
- Chanakya's Arthashastra and AI in Policy Optimization

## **Track 6: Ethical Applications of AI for Sustainable Development**

### **Subtracks:**

- Ethics for Augment Intelligence
- Transparency and Explainability of AI
- AI Safety and Security: Social media perspective
- Long-term Ethical Challenges for AI
- Ethical AI for Next Generation
- Ethical AI for Healthcare
- Ethical AI for Climate Actions

## **Paper Submission**

Authors are cordially invited to electronically submit their papers in English, adhering to the publisher's format (For detail, please refer to the conference website), with a length of 12 to 13 pages. Submissions should encompass unpublished research findings or inventive practical applications, ensuring the novelty of the work and its non-submission elsewhere. All submissions are to be made electronically, and the submitted papers will undergo a thorough peer-review process for potential inclusion in the conference proceedings.

- All manuscript/papers (Maximum 12-13 pages) must be submitted through E-Mail to [raisd@jru.edu.in](mailto:raisd@jru.edu.in)

## **Anonymous Submissions (Double Blind Review)**

We seek the anonymous submissions with authors' identities concealed throughout the paper. Names, addresses and affiliations should be omitted to ensure non-identification. Any references to related work should be in the third person. This particular approach is to ensure an unbiased initial judgment for PC members and external reviewers. The intention is not to prevent the discovery of authors but to allow an unbiased assessment during the entire review process.

The conference's double-blind review process is designed to mitigate bias. However, measures taken to ensure anonymity should not compromise the quality of submissions or burden reviewers unnecessarily. Specifically, it is suggested that vital references must not be omitted or anonymized.

Authors with additional inquiries regarding the double-blind review process are encouraged to contact the Conveners or the Program Committee members via email.

**Each paper will be reviewed by three reviewers of the concerned field based on double blind review process**

## **Format for paper preparation**

Please refer our conference website (<https://jru.edu.in/RAISD2025/index.php>) for details

## **Paper Presentation**

Upon acceptance of the paper after due review process, at least one of the authors of each accepted paper must present the paper in person at the conference (physical/online mode) after registering for the conference.

## **Publication**

1. All the accepted and presented papers registered under category 2 will be published in the conference proceeding series under Springer Nature (Atlantis Press)
2. All the abstracts of the accepted and presented papers registered under category -1 will be published in the e-souvenir with ISBN number

## **Length of Papers**

Authors can submit regular (upto 15 pages) papers that contain original material that is not currently communicated in other conferences or journals and has not been previously published.



## International Advisory Committee

- **Dr. Subodha Kumar**, *Temple University, Philadelphia, USA*
- **Dr. Eng. Zdzislaw Polkowski**, *Jan Wyzykowski University, Polkowice, Poland*
- **Prof. Ahmed A. Elngar**, *Beni-Suef University, BeniSuef City, Egypt*
- **Ille C. Gebeshuber**, *Vienna University of Technology, Austria*
- **Dr. T. Uthayasanker**, *University of Moratuwa, Sri Lanka*
- **Dr. Marta Żurek-Mortka**, *Instytut Technologii Eksploatacji Radom, Poland*
- **Prof. (Dr.) Prof. Jimson Mathew**, *Professor, IIT Patna, India*
- **Dr. Sandeep Rakshit**, *Rabat Business School, Morocco*

## National Advisory Committee

- **Prof. (Dr.) Gautam Kumar Mahanti**, *Professor (HAG), NIT Durgapur, WB*
- **Prof. (Dr.) Rabindra Kumar Pradhan**, *Professor, IIT Kharagpur*
- **Prof. (Dr.) Neelam Rani**, *Associate Professor, IIM Shillong, Meghalaya*
- **Prof. (Dr.) Santanu Kumar Behera**, *Professor, NIT Rourkela, Odisha*
- **Prof. (Dr.) Dr. Pankaj Rai**, *Director, BIT Sindri, Dhanbad, Jharkhand*
- **Prof. (Dr.) M N Bandyopadhyay**, *Former Director, NIT Kurukshetra, Haryana*
- **Prof. (Dr.) Mohammad Afzal Zargar**, *Professor, Central University of Kashmir, Srinagar*
- **Prof. (Dr.) K B Yadav**, *Professor, NIT Jamshedpur, Jharkhand*
- **Prof. (Dr.) Rajesh Kumar Tiwari**, *Principal, RVSCET Jamshedpur, Jharkhand*
- **Prof. (Dr.) Subhash Chandra Yadav**, *Central University of Jharkhand, Ranchi*
- **Dr. K V Radha**, *Professor, Anna University, Chennai, Tamil Nadu*
- **Dr. Arpan Haldar**, *Associate Professor, AIIMS Deoghar, Jharkhand*
- **Dr. S K Singh**, *Former Director, BIT Sindri, Dhanbad, Jharkhand*
- **Dr. Sanjeev Kumar**, *Principal, GWP Jamshedpur, Jharkhand*
- **Dr. Santosh Kumar Mahto**, *Associate Professor, IIIT Ranchi, Jharkhand*
- **Dr. Veerendra Kumar Chandola**, *Sr. Professor, BHU Varanasi, Uttar Pradesh*
- **Dr. Saleel Ismail**, *PhD, Associate Professor, NIT Calicut, Kerala*
- **Dr. Mohit Kumar**, *Associate Professor, MIT-ADT University, Pune*
- **Dr. Sumanta Bhattacharyya**, *Associate Professor, BBIT Kolkata, W.B.*
- **Dr. Brajesh Kumar**, *Assistant Professor, Govt. Engineering College, Jamui, Bihar*
- **Dr. Shweta Singh**, *Birsa Agricultural University Ranchi, Jharkhand*
- **Mr. Ankit Kumar**, *CEO, UGCPL Ranchi, Jharkhand*
- **Mr. Pulkit Jain**, *Founder & Director, Electromotion e-Vidyut Vehicles Pvt. Ltd., Pune*

## **Chief Patron**

**Prof. (Dr.) Savita Sengar,**  
Vice Chancellor, Jharkhand Rai University, Ranchi

## **Patron**

**Prof. (Dr.) Piyush Ranjan,**  
Registrar, Jharkhand Rai University, Ranchi

## **Conveners**

**Dr. Kailash Pati Dutta,**

*Associate Professor, Faculty of CSE & IT,*

*Jharkhand Rai University Ranchi*

**Email :** [kailash.dutta@jru.edu.in](mailto:kailash.dutta@jru.edu.in) | **Contact :** 9472755313

**Dr. Md. Irfan Alam,**

*Associate Professor, Faculty of CSE & IT,*

*Jharkhand Rai University Ranchi*

**Email :** [irfan.alam@jru.edu.in](mailto:irfan.alam@jru.edu.in) | **Contact :** 9835533870

## **Organizing Committee**

**Dr. Anita Singh,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Prof. Anuradha Sharma,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Dr. Kumar Amrendra,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Dr. Binod Kumar,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Prof. Rajan Kumar Tiwari,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Prof. Wakil Kumar,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Prof. Shivangini Bihari,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Dr. Manoj Kumar Mandal,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Prof. Chandray Soren,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

**Prof. Sanjay Kumar Mahto,** *Faculty of CSE & IT, Jharkhand Rai University Ranchi*

## Important Dates:

Full Paper Submission Deadline : ~~31 December 2024~~ : **31 January 2025**

Acceptance Deadline : ~~31 January 2025~~ : **16 February 2025**

Last Date of Registration : ~~5 February 2025~~ **20 February 2025**

Camera Ready Paper Submission Deadline : ~~15 February 2025~~ **25 February 2025**

Conference Date : **7- 8 March 2025**

## Registration Fees :

Category	Category 1* (Paper Presentation and Conference Certificate)	Category 2** (Paper Presentation, Conference Certificate and Publication)
Indian Author (Academia including research scholars and students)	INR 1500	INR 8000
Indian Author (Industry )	INR 2000	INR 9000
Indian Attendee (Non-author)	INR 1000	INR 1000
Indian Industry Attendee (Non-Author)	INR 1500	INR 1500
Foreign Author (Academia/Industry)	\$ 25	\$ 100

### NOTE:

1. A candidate need to register in only one Category

2. The registration charge includes 1 conference kit, conference lunch and networking opportunities during the conference

\* Only the abstract will be published in the conference e-souvenir

\*\*All full-papers will be published in the conference proceeding series under Springer Nature ("Advances in Intelligent Systems Research")

## Registration & Payment Link:

<https://jru.edu.in/RAISD2025/payment/>

**(Click on the link to Register)**



**SCAN QR CODE  
TO REGISTER**

**Organized by Faculty of Computer Science Engineering and Information Technology,  
Jharkhand Rai University Ranchi, India**