

BDA2024: Call for Papers and Proposals

Twelfth International Conference on Big Data and Artificial Intelligence

December 17-20, 2024 (BDA2024)

The University of Hyderabad, India

<https://scis.uohyd.ac.in/~bda2024>

The 12th International Conference on Big Data Analytics and Artificial Intelligence (BDA 2024) will be held during December 17-20, 2024. The conference will be organized by the University of Hyderabad (UoH), India. BDA 2024 provides an international forum for researchers and industry practitioners to share their original research results, practical experiences and thoughts on big data from different perspectives including artificial intelligence, machine learning, storage models, data access, computing paradigms, analytics, information sharing and privacy, redesigning mining algorithms, open issues and future research trends.

BDA 2024 invites original, technically sound, original, high-quality research papers proposing novel solutions addressing the problems related to big data analytics as well as case studies and practical experiences with big data. Major topics of interest to the conference include, but are not limited to:

Big Data Systems and Data Science

- Data Integration
- Data pre-processing
- NoSQL and non-standard Data Models
- Data Fusion and Multi Modal Analytics
- Sensor data management, Statistical and scientific databases
- Index Structures, Scalability and Performance
- Data Mining (Association rule, classification, clustering, pattern mining, query analysis, anomaly and outlier detection)
- Spatio-temporal, time-series, sequential, stream and sensor data mining
- Model Discovery from Big Data
- Big Data Processing
- Distributed and Cloud Computing
- Conceptual/cognitive/programming Models for Big data analytics,
- Information Retrieval and Extraction
- Semantic web and knowledge management

- Graph and social network analysis
- Information search
- Human-in-the-loop computation and crowdsourcing
- User interface design
- Recommendation systems
- Data visualization
- Graph mining
- Privacy, security, trust and fairness in big data
- Semantics of Big Data, Processing of Big Data

Artificial Intelligence

- Machine Learning and AI techniques for big data
- Conversational AI (e.g., chatbots and voice assistants)
- Large Language Models and vision transformers
- Deep Learning
- Prompt Engineering
- Reinforcement learning
- Generative AI
- Quantum ML
- Decision-focussed learning
- Neuro-symbolic methods and reasoning,
- Non-IID learning, and OOD generalization
- Edge analytics and federated learning

Technology and Practice

- Innovative Data science and AI applications in agriculture, medical, drug discovery, environment, climate change. E-governance and so on.
- AI technologies for trend detection, analysis and tracing on contact networks
- Domain-specific Analytics
- Interaction Design for Exploratory Analytics
- AI technologies for trend detection, analysis and tracing on contact networks
- Innovative search and recommendation applications
- Database usability and HCI
- Advanced database and Web applications
- Bio and health informatics

Research Track Submissions:

Each paper should contain an abstract of approximately 250 words with a page limit of 20 pages in the LNCS style. The submissions include the title page, references and appendix. For preparing the manuscript, please see instructions for authors by Springer in the Lecture Notes in Computer Science series (LNCS). The BDA proceedings is expected to be published by Springer's LNCS series (approval pending).

Important Dates: (All deadlines are in Anywhere on Earth)

Full paper submissions: 30-June-2024

Research paper notifications: 15-September-2024

Camera-ready submission: 15-October-2024

Workshops and Tutorials: The BDA 2024 organizing committee invites proposals for half day and full - day workshops and tutorials on established and emerging topics in the areas of Big Data Analytics and other related areas. Information for submission of each type of proposal is provided on the conference website. Visit <https://scis.uohyd.ac.in/~bda2024> for the details of call for WORKSHOP and TUTORIAL proposals.

Organization

Patrons:

Basuthkar Jagadeeshwar Rao, Vice Chancellor, University of Hyderabad, India

P J Narayanan, Director, International Institute of Information Technology,
Hyderabad (IIIT-H), India

Honorary Chairs:

Atul Negi, Dean, School of Computer and Information Sciences, UoH, India

Vadlamani Ravi, IDRBT, Hyderabad, India

General Chair:

Satish Narayana Srirama, University of Hyderabad, India

Steering Committee Liaison:

P Krishna Reddy, International Institute of Information Technology, Hyderabad, India

Program Committee Chairs:

Anirban Dasgupta, Indian Institute of Technology, Gandhinagar, India

Rage Uday Kiran, University of Aizu, Fukushima, Japan

Radwa El Shawi, Institute of Computer Science, University of Tartu, Estonia

Workshop Chairs:

Chinmaya Kumar Dehury, University of Tartu, Estonia

Saurabh Shukla, IIIT Lucknow, India

Prasan Kumar Sahoo, Chang Gung University, Taiwan

Tutorial Chairs:

Jimson Mathew, Indian Institute of Technology, Patna, India

Abhishek Hazra, IIIT-Sri City, Andhra Pradesh, India

Publication Chair:

Mainak Adhikari, IISER Thiruvananthapuram, India

Industry Track Chairs:

Tathagata Chakrabarty, Senior Consultant, TCS, Lucknow, India

Sponsorship Chair:

Bhupathi Shanti, Senior Consultant, TCS, Hyderabad, India

Panel Chairs:

Chakravarthy Bhagvati, University of Hyderabad, India

J V R Sagar, DRDO, India

Diversity & Inclusion Chair:

P S V S Sai Prasad, University of Hyderabad, India

Publicity Chair:

Praveen Kumar Donta, TU Wien, Vienna, Austria

G. Geethakumari, BITS Pilani, Hyderabad Campus, India

Tilottama Goswami, Vasavi College of Engineering, Hyderabad, India

Local Organizing Committee:

Salman Abdul Moiz, UoH

Y V Subba Rao, UoH

Anjeneya Swami Kare, UoH

Rahul Mishra, IIIT Hyderabad

Srinivasa Rao Battula, UoH

S Durga Bhavani, UoH

N Rukma Rekha, UoH

Avatharam Ganivada, UoH

Student Chair:

Aditya Kumar, Research Scholar – UoH, India

Web Chair:

Rahul Siyanwal, Research Scholar – UoH, India

BDA2024 Secretariat

Satish Narayana Srirama (University of Hyderabad, India)

E-mail: bda2024.uoh@gmail.com

Website: <https://scis.uohyd.ac.in/~bda2024>
