



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)



4TH INTERNATIONAL E-CONFERENCE COMPUTING & DATA SCIENCE

Theme

**Advanced and Emerging Applications in
computing and Data Science
(AEACDS: 2023)**



FRIDAY, 15 December 2023

ONLINE MODE



www.icds.ipem.edu.in

About the Institute

The Institute of Professional Excellence & Management (IPEM), Ghaziabad- established in 1996, conducts various Programs in Computer Applications & Information Technology besides others, in Management, Law and Education. These are approved by the concerned professional approving bodies and affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow and Ch. Charan Singh University, Meerut, Uttar Pradesh, India.

The IPEM has completed 28 years of its existence and is organizing an International E-Conference on Computing and Data Science with Theme “Advanced and Emerging Applications in computing and Data Science (AEACDS -2023), on 15th December (Friday).

About the E-Conference & It's Objectives

The Computer Applications Department of Institute of Professional Excellence & Management, Ghaziabad, UP, India is organizing an International E-Conference on Computing and Data Science with Theme “Advanced and Emerging Applications in computing and Data Science (AEACDS -2023), on 15th December (Friday).

The objective of AEACDS-2023 is to bring together researchers and practitioners from academic and industry to highlight the importance of computing technologies and data science as well as establish new collaborations in these areas. The conference looks for significant contributions to computing, data mining and data science in theoretical and practical aspects.

Sub Themes of the Conference:

• Computing:

Scientific Computing, Computer Modeling, Cloud Computing, Parallel Computing, Mobile Computing, Simulation, Computational Optimization, Distributed Computing, High Performance Computing, Soft Computing Theory and Applications , Parallel and Distributed Computing, Cluster Computing, Supercomputing, Autonomic Computing,P2P Computing ,Mobile Computing ,Grid and Semantic Grid Computing ,Workflow Design and Practice Computer and Network Architecture , Web Based Computing .

• Internet of Things:

Wireless Sensor Networks, Cloud Computing, Big data analytics, Communication protocols, Embedded Systems, IoT Levels and Templates Domain Specific IoTs – Home, City, Environment, Energy, Retail, Logistics, Agriculture, Industry, health and Lifestyle, NETCOZF, YANG- NETCONF, YANG, SNMP NETOPEER, Cloud Storage models and communication APIs

• Cloud Computing:

Data link layer design issues, Flow Control- Stop and Wait, Error Detection, Error Control, error detection and correction, data link layer protocols, sliding window protocols, example of data link protocol- HDLC, Channel allocation problem, multiple access protocols, Introduction to ALOHA, CSMA/CD, CSMA/CA, routing, flooding, distance vector routing, link state routing (without algorithms), congestion control and quality of service, internetworking, IP, Ipv4 Addressing vs Ipv6

• Cyber Security:

Data Security Considerations-(Backups, Archival Storage and Disposal of Data), Security Technology-(Firewall, VPNs, Intrusion Detection System), Access Control. Security Threats -Viruses, Worms, Trojan Horse, Bombs, Trapdoors, Spoofs, E-mail Viruses, Macro Viruses, Malicious software, Network and Denial of Services Attack. WWW policies, Email Security policies, Corporate Policies, Sample Security Policies.

• Machine Learning:

Artificial Intelligence Tools & Applications, Hybrid Intelligent Systems, Natural Language Processing, Computer Vision, Image process, Heuristic and AI Planning Strategies and Tools, Computational Theories of Learning, Intelligent System Architectures, Neural Networks and applications, Pervasive Computing and Ambient Intelligence, Reasoning and Evolution, Semantic Web Techniques and Technologies, Web Intelligence Applications and Search

• **Big Data Analytics, Data Mining & AI:**

Big Data Analytics and Algorithms, Optimization and Big Data, Data Clustering ,Artificial Intelligence, Neural Networks, Computing, Data Mining & Data Warehousing, Big Data Technologies, Big data security and privacy, Computational Linguistics , Information Retrieval , Natural Language Processing & Text Mining ,Visual and Audio Data Mining , Scientific and Statistical Data Mining , Collaborative Filtering , Social Impacts of Data Mining ,Speech Recognition, Virtual Agents, AI-optimized Hardware, Decision Management, Deep Learning Platforms, Biometrics, Robotic Process Automation, Text Analytics and NLP.

• **Data Sciences:**

Databases, Data Management, Data Analytics, Social Network Analysis, Time Series Analysis, Forecasting, Data Security, Predictive Modeling, Data Analytics, Change Detection, Medical informatics, Distributed and Parallel Algorithms for Data ScienceBig Data Representation and Visualization, Business Intelligence, Data-Lakes, Big-Data Technologies, Text Analytics, Image Interpretations, Web Analytics, Mobile Analytics, High Performance Computing for Data Analytics, Knowledge Discovery Theories, Models and Systems, Human-Machine Interaction and Interfaces, Crowd sourcing and Collective Intelligence, Data Security.

•**Artificial Intelligence & Robotics Track:**

Intelligent cloud-support communications, Intelligent resource allocation, Intelligent energy-aware /green communications, Intelligent software defined networks, Intelligent positioning and navigation systems ,AI & wireless communication, Intelligent wireless sensor networks, AI based underwater sensor networks. Robot design, development and control, Telerobotics and Teleportation, Virtual Reality ,Natural language dialogue with robots, Web based control

•**Advanced Algorithm:**

Advanced Computing Architectures and New Programming Models, Sequential, Parallel and Distributed Algorithms and Data Structures, Advanced Numerical Algorithms, Pervasive and Ubiquitous Computing Techniques, Constraint-Based Algorithms, Web Algorithms, Design and Analysis of Geometric Algorithms, Computational Methods and Algorithms, On-line and Streaming Algorithms, Graph Algorithms and Graph Drawing, High Performance

****Tracks not limited to these only**

Mode of Presentation: ZOOM Platform and Live on IPEM You Tube channel

Who Should Attend: Speakers & Participants: Academia, Industry Professionals, Research Scholars, and Social Service Organizations & Students.

International Speakers, National Speakers, Guest of Honor, Session Chair of the Conference

A great speaker is driven to know his stuff and care about a particular topic. His passion will cause others to be convinced, not just because of his force of reasoning, but also because he is visibly enjoying the beliefs, he wants his audience to accept. We have invited many of the speakers from reputed universities from abroad as well as from India.

Full Length Paper Submission AEACDS -2023

The full length paper has to be submitted using the following links of Registered Conference Management System (CMS). The Abstract / Paper Must be submitted to both the links in (.doc) and (.pdf) form.

On Conference Registered E-mail: itconference@ipemgzb.ac.in

EASYCHAIR LINK: <https://easychair.org/conferences/?conf=aeacds2023>

Authors are requested to submit articles that illustrate research results, projects, surveying works and industrial experiences that describe significant advances in the sub themes mentioned.

Guidelines for submission of Abstract & Papers

1. Original papers based on theoretical or experimental works related to the E-Conference themes for presentation in the session.
2. The total length of the paper must not exceed six A4 size pages including text, figures, graph, tables & bibliography etc.
3. The Abstract/Paper should be typed in MS Word, 12-point Times New Roman and 1.5 line spacing. The Abstract should be limited to 500 words only and the full paper should be 10-12 pages.
4. The paper should begin with title, short abstract and a list of keywords. Simultaneous submissions (papers already submitted to other conferences/journals) are not allowed.

- 5. Author(s) should mention their designation along with the institutional affiliation and contact details.
- 6. All the photographs should be submitted as large size and good quality JPEG images. Content and figures should be clearly readable.
- 7. Graphs and bar diagrams should preferably be prepared using Microsoft Excel and submitted as Excel graph pasted in Word.
- 8. Maximum 3 Authors are allowed in a Research Paper.
- 9. Please do not submit plagiarized papers.

All accepted and presented papers of the E-Conference by duly registered author(s) will be published in the IPEM Journal of Computer Application & Research (ISSN: 2581-5571).

The high quality research papers may be considered for Peer Reviewed indexing journals such as Scopus & UGC Care on the terms and conditions of the journals. If the content is selected for publication in these Journals, The article processing fees will be borne by the author other than the conference Registration fee.

Important Dates: AEACDS 2023

Last date for submission of Abstract with Registration	1st October 2023
Submission of Full-Length Paper	20th October 2023
Full length Paper Editing Notification (Plagcheck etc.)	1st November 2023
Last date of Revised full length paper submission with conference payment etc.	15th November 2023

Registration Fee & Mode of Payment:

Registration can be done through the conference website :

<https://icds.ipem.edu.in/account-registration/>

Category	Registration Fee	
	National (Rs)	International (\$USD)
Academicians/ Industry Representatives	2000	50
Research Scholars	1500	50
Students	750	25
Attendees Only	500	20

Online Via E-Conference Website

<https://icds.ipem.edu.in/account-registration/>

Conference Committees

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For any queries mails can be done on the above Email IDs or conference mail id given below
(itconference@ipemgzb.ac.in)

Team AEACDS: 2023

15th December 2023(Friday)

Department of Computer Applications

Institute of Professional Excellence and Management

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