INTERNATIONAL CONFERENCE
on
PERVASIVE COMPUTATIONAL TECHNOLOGIES
(ICPCT-2025)

ICPCT-2025

08th - 09th, Feb, 2025

Organized by

DEPARTMENT OF
APPLIED COMPUTATIONAL SCIENCE & ENGINEERING
GL Bajaj Institute of Technology & Management,
Greater Noida

ABOUT THE INSTITUTE

GL Bajaj Institute of Technology and Management is one of the quality driven Educational Institute in the Greater Noida/Delhi-NCR Region. GL Bajaj stands out in its approach to assist and equip the students for their overall development, giving them a strong foundation for a successful future. The institute offers B.Tech, M.Tech, MBA, MCA. This self-financed institute is governed by Rajeev Memorial Academic Welfare Society (Registered Under Societies Registration Act 1860). It is approved by All India Council for Technical Education (AICTE), Ministry of Human Resource Development, and Government of India and affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow.

VISION OF THE INSTITUTE

To be an institute of repute, providing professionally competent and socially sensitive engineers.

MISSION OF THE INSTITUTE

- To equip with the latest technologies to be globally competitive professionals.
- To inculcate qualities of leadership, professionalism, corporate understanding and executive competence.
- To imbibe and enhance human values, ethics and morals in our students.

ABOUT THE DEPARTMENT

The Department of Applied Computational Science & Engineering at GL Bajaj Institute of Technology was established in the year 2021 with a vision to help the IT boom and fulfill the need of dynamic Software Engineers globally. Since then, especially in the last ten years of the IT revolution, the department has taken long strides and is now among one of the best department in the college. It is a dynamic and forward-thinking academic unit committed to exploring, developing, and applying AI technologies. Over the past few years, the demand for AI courses has increased dramatically. Major focus on cutting-edge research, interdisciplinary collaboration, and ethical considerations, we prepare our students to become leaders and innovators in shaping the future of AI. With experienced faculty and state-of-the-art resources, we strive to nurture the next generation of AI professionals and drive advancements in this rapidly evolving field. We prepare our students to become leaders and innovators in shaping the future of AI. With experienced faculty and state-of- the-art resources, we strive to nurture the next generation of AI professionals and drive advancements in this rapidly evolving field.

DEPARTMENT VISION

To be recognized as a department imparting quality education in the field of applied computational science and emerging technologies in order to prepare technically competent professionals, researchers and entrepreneurs with an inquisitiveness towards problem- solving promoting ethics and participating in socio-economic development of nation.

DEPARTMENT MISSION

- To prepare graduates with a strong foundation in Artificial Intelligence, Machine Learning, Data Science, emerging technologies and related disciplines.

- To inculcate problem solving skills in graduates in order to promote critical thinking and leadership qualities.

- To educate socially competent professionals for various domains well versed with ethical uses of emerging technologies.

ABOUT THE CONFERENCE

The 1st International Conference on Pervasive Computational Technologies (ICPCT-2025) will provide an outstanding international venue for exchanging knowledge and achievements in development of Intelligent Systems. The conference is designed to perform tasks in diverse domain of Computing Science, using Deep Learning and Neural networks, Natural Language Processing, Machine Learning Algorithms , Computer Vision and Image Processing, Artificial Intelligence for Autonomous Systems , AI and Emerging Technologies , and Internet of Things (IoT) with their Theory, Methodology, and applications. The conference seeks contributions in both theoretical and practical aspects to the multi-disciplines of the same fields. The Conference's goal is to bring together scholars and practitioners from academia and industry to discuss and exchange cuttingedge developments in the field. Articles illustrating research results, projects, surveying works, and industrial experiences that describe significant advances in the areas of Intelligent Systems are encouraged to be submitted to the conference.

CONFERENCE TRACKS

Track 1: Deep Learning and Neural Networks
- Advancements in Deep Neural Networks
- Convolutional Neural Networks (CNNs)
- Recurrent Neural Networks (RNNs)
- Generative Adversarial Networks (GANs)
- Transfer Learning and Pretrained Models
- Explainable AI in Deep Learning

Track 3: Machine Learning Algorithms
- Supervised, Unsupervised, and Reinforcement Learning
- Ensemble Methods and Model Selection
- Feature Engineering and Dimensionality Reduction
- Anomaly Detection and Outlier Analysis
- Interpretability and Explainability in Machine Learning
- AutoML and Automated Model Building

Track 2: Natural Language Processing (NLP)
- NLP for Text Understanding and Generation
- Sentiment Analysis and Opinion Mining
- Named Entity Recognition and Text Classification
- Machine Translation and Multilingual NLP
- Question Answering and Dialog Systems
- Ethical Considerations in NLP

Track 4: Computer Vision and Image Processing
- Object Detection and Image Classification
- Image Segmentation and Scene Understanding
- Face Recognition and Biometric Identification
- Medical Image Analysis and Diagnosis
- Augmented Reality and Computer Vision Applications
- 3D Vision and Depth Estimation

Track 5: AI for Autonomous Systems
- Autonomous Vehicles and Self-Driving Cars
- Drones and Robotics Automation
- AI in Aerospace and Space Exploration
- Autonomous Agents and Reinforcement Learning
- Safety and Ethics in Autonomous AI Systems
- AI in Recommendation Systems
- AI in Explainable AI (XAI

Track 6: AI and Emerging Technologies
- AI in Quantum Computing
- AI at the Edge and IoT
- AI and Blockchain Integration
- AI in 5G and Next-Generation Networks
- AI in Edge Computing
- AI for Sustainability and Climate Modeling

Track 7: Internet of Things(IoT)
- IoT Enabling Technologies
- IoT Networks & Communications
- IoT Services and Intelligence
- IoT Systems and Applications
- IoT and Data

PAPER SUBMISSION GUIDELINES

The 1st International Conference on Pervasive Computational Technologies (ICPCT-2025) will be organized by Department of Applied Computational Science & Engineering, GL Bajaj Institute of Technology and Management, Greater Noida, India from 08th to 09th February, 2025. The aim of the ICPCT-2025 is to serve researchers, developers, educators working in the area of Artificial Intelligence and their applications to present as well as to exchange the research ideas. ICPCT-2025 invites authors to submit their original and unpublished work that demonstrates current research in all areas of Disruptive Technology and their applications through Microsoft's Conference Management Toolkit

Submission Link: https://cmt3.research.microsoft.com/ICPCT2025

Publication - All the accepted and presented papers of ICPCT-2025 will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope.

IMPORTANT DATES

Abstract Submission Last Date	:	01st October, 2024
Full Paper Submission Last Date	:	31st October, 2024
Notification for Paper Acceptance Last Date	:	30th December, 2024
Last date of author/participant's Registration	:	20th January, 2025
Camera Ready Submission	:	25th January, 2025
Date of Conference	:	08th-09th, February, 2025

IEEE - ICPCT-2025   Registraion Fee

Indian Authors	IEEE Members(INR)	Non IEEE Members(INR)
Corporate Sectors/Others	8000	9000
Academicians/Research Scholars/Students	7000	8000
UG/PG Scholars	5000	6000
Co-Author/ Attendee	1000	1500

Foreign Authors (USD)	IEEE Members(USD)	Non IEEE Members(USD)
Corporate Sectors/Others	250	350
Academicians/Research Scholars/Students	200	300
UG/PG Scholars	100	150
Co-Author/ Attendee	75	100

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Institute of Technology & Management

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