



GL BAJAJ

Institute of Technology & Management

FIND YOUR SPARK

Dr. Leandro L. Minku

VP, IEEE Computational Intelligence Society
(CIS) Associate Professor, Director, MSc Data
Science, School of Computer Science College
of Engineering and Physical Sciences University
of Birmingham, UK



Face of Cover

GLBMCA 2025



AUGUST, 2025

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Message from Patrons

Chairman's Message



Firm belief in values is the main source of our abilities which gives us strength, courage, conviction, and commitment on a continuous basis.

Dr. R.K. Agarwal
The Founder of the

Vice Chairman's Message



We firmly believe that support, guidance and assistance play a phenomenal role in transforming students into professionals with sheer excellence and sharp focus.

Pankaj Agarwal

Director Message



Our expertise coupled with rock solid principles, excellent infrastructure, competent faculty members, robust teaching methodology and industrial relations place us well above the rest.

Dr. Preeti Bajaj

HOD Message



The Department seeks to combine excellence in education with service to the industry. Our vision is to be recognized as innovative and leading MCA Department. Our goal is to provide students with a balance of intellectual and practical experiences that enable them to serve a variety of societal needs. In our department students are nurtured to become best software professionals as Project Managers, System Analysts or Team leaders in Industry or become Entrepreneurs in their own innovative way.

Dr. Madhu S. Gaur

DESCRIPTION AND CATALOGING

VISION

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

MISSION

-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 Master of Computer Applications at GL Bajaj Institute of Technology & Management started in the year 2006 with a vision "To become a centre of repute and developing computer professionals who can respond to social and global challenges". The Department focuses on the attainment of professional excellence by providing acquaintance with new IT tools and technologies. The branch of Master of Computer Applications focuses on the scientific research, scientific programming, Application programming, software testing and software engineering. The Department has well-furnished laboratories with contemporary hardware and software resources section.

Key Highlights

1. *CISES 2025*
2. *GLWcodeathon 2025*
3. *Research Publication-Patent*

3rd International Conference on Intelligent Systems for Engineering & Sustainability (CISES2025)

The Department of Master of Computer Applications, GL Bajaj Institute of Technology & Management, Greater Noida, successfully hosted the **International Conference on Intelligent Systems for Engineering & Sustainability (CISES 2025)** from 11th to 13th August 2025.

This prestigious event brought together eminent academicians, researchers, industry experts, and students from across the globe to explore advancements in artificial intelligence, computational intelligence, and sustainable technologies.

The conference received an overwhelming response, with **271 registered papers**, including **125 presented offline** at the institute and **146 presented online**, highlighting its global reach.



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IEEE Computational Intelligence Society



GL BAJAJ
Institute of Technology & Management
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Approved by AICTE & Affiliated to AKTU

IEEE CONFERENCE RECORD NO: #66934

3rd INTERNATIONAL CONFERENCE ON INTELLIGENT AND SECURE ENGINEERING SOLUTIONS (CISES-2025)

CHIEF PATRON



Dr. R. K. Agarwal
Chairman
GLBITM

PATRON



Mr. Pankaj Agarwal
Vice-Chairman
GLBITM

CO-PATRON



Mr. Kartikay Agarwal
CEO
GLBITM

CHIEF GUEST



Dr. Leandro L. Minku
Dr. Minku is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.

GUEST OF HONOUR



Dr. M. H. Hada
Dr. Hada is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.



Prof. J. Ramkumar
Prof. Ramkumar is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.



Dr. Nishchal K. Verma
Dr. Verma is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.

GENERAL CHAIR



Prof. Dr. J. Praveen Bajaj
Dr. Bajaj is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.

KEYNOTE SPEAKER



Dr. Tejendra Singh
Dr. Singh is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.



Dr. Surin Khan
Dr. Khan is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.



Dr. Krishna Prasad Singh
Dr. Singh is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.



Dr. Pooja Kumar Shukla
Dr. Shukla is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.



Dr. Bhuvaneshwar Senapati
Dr. Senapati is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.



Mr. Sameer Gupta
Mr. Gupta is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.

CONFERENCE CHAIR



Prof. Dr. J. Praveen Bajaj
Dr. Bajaj is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.

CONVENER



Dr. Sameer Kumar
Dr. Kumar is an Associate Professor at the Department of Computer Science, University of Twente, Enschede, The Netherlands. He is also a Senior Research Fellow at the Centre for Intelligent Systems, University of Twente.

DATE: **11th-13th AUGUST 2025** | TIME: **09:30 AM ONWARDS** | VENUE: **SBG HALL, SECOND FLOOR, AB-2**

Organized by **Department of Master of Computer Applications**
G.L. Bajaj Institute of Technology & Management, Greater Noida

3rd International Conference on Intelligent Systems for Engineering & Sustainability (CISES2025)

Day 1: Monday, 11th August 2025

The inaugural ceremony featured traditional lamp lighting and Maa Saraswati Vandana. Prof. (Dr.) Preeti Bajaj, Director, GLBITM, delivered the opening address, highlighting the significance of innovation, sustainability, and collaboration in research. Prof. (Dr.) Madhu S. Gaur, Head of MCA, welcomed participants, followed by keynote addresses from distinguished guests, including:

- Dr. Leandro L. Minku, Vice President for Conferences, IEEE CIS, University of Birmingham, UK
- Prof. (Dr.) Ramkumar J, IIT Kanpur
- Dr. Nishchal K. Verma, IIT Kanpur & Chair, IEEE CIS UP Section
- Prof. (Dr.) M. N. Hoda, Director, BVICAM New Delhi
- Dr. Vrijendra Singh, Professor, IIIT Allahabad
- Dr. Sanjeev Kumar, Conference Convenor, GLBITM

Key discussions focused on AI, deep learning, intelligent systems, and interdisciplinary research. A souvenir was released, showcasing global contributions. Technical sessions featured paper presentations on AI-driven engineering and sustainable technologies, ending with networking opportunities.



International Conference on Intelligent Systems for Engineering & Sustainability (CISES2025)

Day 2: Tuesday , 12th August 2025

The second day delved into fuzzy systems and sustainable technologies. Keynote addresses included:

- **"Exploring Fuzzy Systems: Theory, Tools, and Practical Applications"**
- Applications of fuzzy systems in energy, transportation, and automation

The second keynote expanded the discussion by focusing on the applications of fuzzy systems in sustainable energy, transportation, and industrial automation. The distinguished speakers of the day included **Dr. Biswaranjan Senapati** from Capital Technology University, USA, who provided an international perspective on AI research and its applications, and **Prof. Praveen Kumar Shukla**, Dean of Engineering, BBD University, who emphasized the integration of sustainability and technology in modern education and industry practices. The technical sessions covered AI applications in communication, healthcare, automation, and green computing, providing constructive feedback for researchers. The day concluded with informal networking.



International Conference on Intelligent Systems for Engineering & Sustainability (CISES2025)

Day 3: Wednesday, 13th August 2025

The final day emphasized ethics and futuristic AI applications. Keynotes included:

- "SAFE AI" for safety-critical domains
- "The Ethics of Intelligent Systems: Building Trust in AI"
- "Quantum Enabled Secure Image Communication"

Sessions were chaired by **Mr. Sameer Goyal**, Senior Director, Acuity Knowledge Partners; **Prof. Ekram Khan**, Aligarh Muslim University; and **Dr. Krishna Pratap Singh**, IIIT Prayagraj. Paper presentation tracks provided valuable feedback. The conference concluded with a felicitation ceremony, group photographs, and a vote of thanks, inviting participants to CISES 2026.

Conclusion

CISES 2025 successfully brought together eminent experts, researchers, and students from India and abroad. The conference facilitated meaningful discussions on AI, sustainability, ethics, and innovation. The Department of MCA at GLBITM expresses sincere gratitude to speakers, authors, and participants for their contributions and looks forward to CISES 2026.



GLBWCodeathon 2025: Celebrating Gender-Inclusive Innovation

The Department of Master of Computer Applications, GL Bajaj Institute of Technology & Management, Greater Noida, successfully organized **GLBWCodeathon 2025** from **11th – 13th August 2025**, running parallel to CISES 2025, the **GLBWCodeathon 2025** showcased creativity and diversity in technology. Organized under **Track 2: Idea/Poster Presentation**, the event saw participation from **30+ teams** across institutions. Each team comprised **3–4 members**, maintaining **at least 50% women participants**, with every team led by a woman, reinforcing the event's commitment to **gender equality and women leadership in technology**.

Participants presented innovative solutions to real-world problems in domains like **Intelligent Computations and Communications, Soft Computing and AI-driven Process Automation, Healthcare, and Sustainable Engineering Solutions**. The event was enriched by expert mentorship from distinguished academicians and industry leaders, including **Prof. (Dr.) Madhu S. Gaur, Dr. Nishchal K. Verma, Prof. Ramkumar J, Prof. M. N. Hoda, and Dr. Leandro L. Minku**.

An accomplished review panel comprising **Mr. Nitin Sharma (Atlantic Coast Automotive Inc.), Mr. Chandan Choudhary (Infinite Computer Solutions), and Mr. Deenu Khan (Accenture)** evaluated teams on **novelty, technical depth, practicality, and presentation skills**.

The winners were:

- **First Prize (₹5,000): Team EcoGrid, IILM University, Greater Noida**
- **Second Prize (₹2,000): Team Medlock, GLBCTM, Greater Noida**

Beyond prizes, all participants gained invaluable exposure, mentorship, and collaborative experience. **GLBWCodeathon 2025** emerged as a successful initiative, reflecting the vision of creating **inclusive, innovative, and sustainable technological solutions for the future**.



GLBWCcodeathon 2025: Celebrating Gender-Inclusive Innovation



Faculty Research Highlights (Paper/Book/Book Chapter/Patent)

The Department of Master of Computer Applications, GL Bajaj Institute of Technology & Management, Greater Noida, takes pride in sharing the recent research contributions of its faculty members, published with IEEE in August 2025. These works reflect the department's ongoing commitment to innovation, academic excellence, and impactful research in emerging domains.

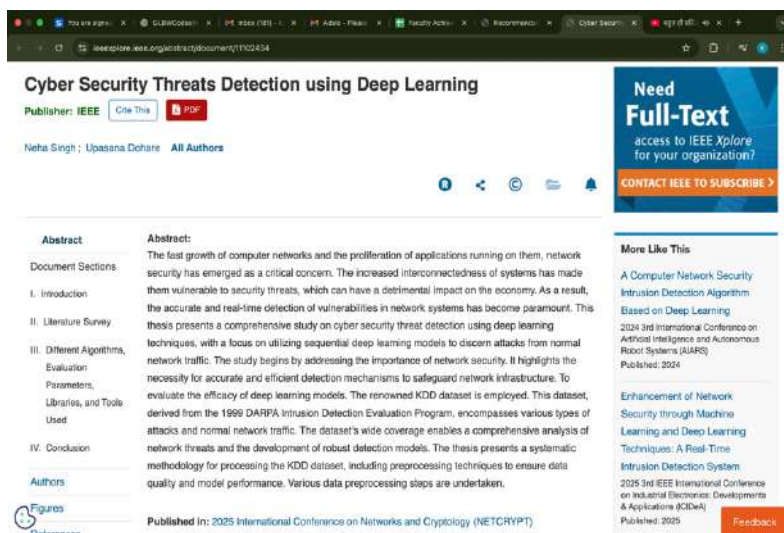
Recommendation Engine for Secure Selection of Data on the Basis of Web Usage Mining

Ms. Deepkiran presented the research paper *"Recommendation Engine for Secure Selection of Data on the Basis of Web Usage Mining"*, published with **IEEE** on **21st August 2025**. This work focuses on leveraging web usage mining techniques to design a secure and intelligent recommendation engine, addressing the critical challenge of data safety in personalized systems.



Cyber Security Threats Detection using Deep Learning

Dr. Upasana Dohare contributed impactful research paper at the **2025 International Conference on Networks and Cryptology (NETCRYPT)**, organized by IEEE on **12th August 2025**: *"Cyber Security Threats Detection using Deep Learning"* – An exploration of advanced deep learning models for detecting and mitigating cyber threats in modern digital infrastructures.



Faculty Research Highlights (Paper/Book/Book Chapter/Patent)

Smart Vehicle Communication Design in Hilly Region Using Internet of Things

Dr. Upasana Dohare contributed impactful research paper at the 2025 International Conference on Networks and Cryptology (NETCRYPT), organized by IEEE on 12th August 2025: “Smart Vehicle Communication Design in Hilly Region Using Internet of Things” – A study presenting IoT-enabled solutions for enhancing communication reliability and safety in challenging terrains.

Smart Vehicle Communication Design in Hilly Region Using Internet of Things

Publisher: IEEE

Kadaguang Malangmei ; Upasana Dohare

Abstract

Document Sections

I. Introduction

II. Related Work

III. Drawbacks and Limitation

IV. Proposed System

V. Working

Show Full Outline

Authors

Abstract:

This model used the advanced growing application of IoT for communication of vehicles while driving along the hilly roadways of the hillside and the steep road of the mountainous region. The hill roads are curved and steep and the nature of obscured vision which impedes safety in the hillside. This constraint can be vanquished by developing a safety communication model using lights and vibration module for drivers' awareness thereby helping to take precautions and actions instantly in the hilly road. This Intelligent communication model is specially designed using microcontrollers and sensors to take instant safety actuation actions in steep inclined roads in the hill region.

Published in: 2025 International Conference on Networks and Cryptology (NETCRYPT)

Date of Conference: 29-31 May 2025

DOI: 10.1109/NETCRYPT65877.2025.11102662

Date Added to IEEE Xplore: 12 August 2025

Publisher: IEEE

ISBN Information:

Conference Location: New Delhi, India

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More Like This

Enhancing Road Safety with Connected Internet of Things (IoT) based Vehicle Technology using Cooperative Hazard Awareness and Avoidance Scheme

2024 8th International Conference on Electronics, Communication and Aerospace Technology (ICECAT)

Published: 2024

Vehicle Security and Road Safety System Based on Internet of Things

2022 IEEE International Conference on Current Development in Engineering Technology (CDET)

Published: 2022

Faculty Research Highlights (Paper/Book/Book Chapter/Patent)

We are proud to share the remarkable achievements of our faculty members, who continue to demonstrate innovation and excellence in the field of research and technology. On **August 8, 2025**, a total of **16 patents** authored by our distinguished faculty were officially published in *The Patent Office Journal*. These patents reflect cutting-edge research contributions spanning artificial intelligence, Internet of Things (IoT), smart automation, cybersecurity, and sustainable systems.

S. No.	Faculty Name	Patent Title	Published /Grant	Publisher	Date of Publication/ Grant	Link
1	Sugandhi	PayFolio: AI based expense tracker using Email, OCR and Whatsapp Integration	Patent Published	The Patent Office Journal no 32/2025	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
2	Dr Madhu S Gaur, Dr Bishwajeet Pandey	The Brainwave Cap is an Innovative IOT Device Designed to Speak, See, Or Hear	Patent Published	The Patent Office Journal no 32/2025	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
3	Dr Madhu S Gaur, Mr Biky Chouhan, Dr Bishwajeet Pandey	An IOT-based Agritech System for Automated Irrigation and Soil Monitoring	Patent Published	The Patent Office Journal no 32/2026	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
4	Ms Pragya Sidhi, Mr Biky Chouhan, Dr Bishwajeet Pandey	IOT-Enabled Smart Parking System with Instant Slot Detection and Automated Gate Operation	Patent Published	The Patent Office Journal no 32/2027	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
5	Ms Kavita Singh, Mr Biky Chouhan, Dr Bishwajeet Pandey	Decentralized Smart Home Automation System with Embedded Edge Control and Multi-protocol Communication	Patent Published	The Patent Office Journal no 32/2028	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
6	Dr Gaurav Jindal, Mr Biky Chouhan, Dr Bishwajeet Pandey	Vibration Energy Harvesting System	Patent Published	The Patent Office Journal no 32/2029	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
7	Mrs Biraja Mishra, Mr Biky Chouhan, Dr Bishwajeet Pandey	Portable Heart Rate and SPO2 Monitoring System using Sensors and Arduino Microcontroller	Patent Published	The Patent Office Journal no 32/2030	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent

Faculty Research Highlights (Paper/Book/Book Chapter/Patent)

8	Mr Biky Chouhan, Dr Bishwajeet Pandey	Indoor Plant Monitoring System	Patent Published	The Patent Office Journal no 32/2031	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
9	Mr Akhilesh Nagar, Dr V K Pallaw, Dr Bishwajeet Pandey	Reverse Engineering and Analysis Methodology for Wannacry Ransomware	Patent Published	The Patent Office Journal no 32/2032	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
10	Mr Biky Chouhan, Dr Bishwajeet Pandey	Emergency Detection and Alert System	Patent Published	The Patent Office Journal no 32/2033	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
11	Ms Shanta Satyapathi, Mr Biky Chouhan, Dr Bishwajeet Pandey	Five-layer IOT Architecture for Enhanced Security and Scalability	Patent Published	The Patent Office Journal no 32/2034	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
12	Dr Madhu S Gaur, Mr Biky Chouhan, Dr Bishwajeet Pandey	Energy-efficient Temperature and Humidity Monitoring System	Patent Published	The Patent Office Journal no 32/2035	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
13	Ms. Pragya Bajpayee, Mr Biky Chouhan, Dr Bishwajeet Pandey	Motion-responsive Intelligent Table System	Patent Published	The Patent Office Journal no 32/2036	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
14	Dr Sanjeev Kumar, Mr Biky Chouhan, Dr Bishwajeet Pandey	Automated Energy Usage Detection and Reporting System	Patent Published	The Patent Office Journal no 32/2037	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
15	Ms Pooja Thapar, Mr Biky Chouhan, Dr Bishwajeet Pandey	Automated IOT-based Wet and Dry Waste Segregation System	Patent Published	The Patent Office Journal no 32/2038	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent
16	Mr Nirmal Kumar Saraswat, Ms Sugandhi, Mr Biky Chouhan, Dr Bishwajeet Pandey	Smart Dustbin System for Automatic Dry, Wet and Metal Segregation	Patent Published	The Patent Office Journal no 32/2039	08/08/25	https://search.ipindia.gov.in/IPOJournal/Journal/Patent

Faculty Achievements (FDP/MDP/Training Program/Workshop)

IEEE Delhi Section: A Lecture Series on Cyber Security- Tools to Monitor the Vulnerabilities



Dr. Madhu Sharma Gaur, from **G.L. Bajaj Institute of Technology and Management, Greater Noida**, successfully participated in the IEEE Delhi section A Lecture Series on “*Cyber Security – Tools to Monitor the Vulnerabilities*” held on 16th August 2025. The program was organized by **BVICAM**, New Delhi, and aimed at enhancing knowledge and skills in monitoring cybersecurity vulnerabilities effectively

A Workshop “An Integrated Approach for Computation Resources: Cloud with Internet of Things”

Ms. Niharika Singh attended a workshop on “*An Integrated Approach for Computation Resources: Cloud with Internet of Things*” organized by SCSET, Bennett University, Greater Noida, from 28th July to 1st August 2025. The workshop emphasized the integration of cloud computing with IoT technologies for optimized resource utilization and advanced computing applications.



Faculty Achievements (FDP/MDP/Training Program/Workshop)

An FDP On “QT-05: Quantum Computation”



Dr. Upasana Dohare successfully completed an FDP on “QT-05: Quantum Computation” organized by EICT, MNIT Jaipur, from 11th July to 2nd August 2025. This FDP explored the theoretical foundations and practical aspects of quantum computation, enabling participants to contribute to the rapidly advancing field of quantum technologies.