ABESIT
ABES INSTITUTE OF TECHNOLOGY

प्रतिबिंब

"The Newsletter"

September, 2026

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Celebrating the wisdom of our traditions, the power of education, the pride of our language, and the promise of a sustainable future.

OUR GUIDING LIGHT

VISION

TO PROVIDE EXCELLENCE BY IMPARTING KNOWLEDGE TO THE LEARNERS, ENABLING THEM TO BECOME SKILLED PROFESSIONALS AND BE RECOGNIZED AS RESPONSIBLE CITIZENS. WE AIM TO FOSTER INNOVATION, INTEGRITY, AND A COMMITMENT TO LIFELONG LEARNING.

MISSION

- **PROVIDE QUALITY EDUCATION IN THE FIELD OF COMPUTER SCIENCE AND ENGINEERING THROUGH EXPERIENCED AND QUALIFIED FACULTY MEMBERS.**
- **MOTIVATE LEARNERS FOR HIGHER STUDIES AND RESEARCH-ORIENTED ACTIVITIES BY UTILIZING RESOURCES OF CENTERS OF EXCELLENCE.**
- **INCULCATE SOCIETAL VALUES, PROFESSIONAL ETHICS, TEAM WORK, AND LEADERSHIP QUALITIES BY HAVING EXPOSURE AT NATIONAL AND INTERNATIONAL LEVEL ACTIVITIES.**

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From the Helm

Message from the Program Coordinator – BCA & MCA



Dear Readers,

Greetings from the BCA Department, ABESIT.

It is a pleasure to present this edition of our departmental magazine, reflecting the academic achievements, creativity, innovative ideas, and collaborative spirit of our students and faculty members.

The BCA Department is committed to providing quality education and nurturing technical excellence, critical thinking, and professional skills. Through coding competitions, technical workshops, hackathons, peer-learning activities, and industry-oriented training, we strive to bridge the gap between academic knowledge and industry requirements.

Our focus extends beyond classroom learning, encompassing the development of communication skills, problem-solving abilities, leadership qualities, and ethical values. We encourage students to explore emerging technologies such as Artificial Intelligence, Machine Learning, Cloud Computing, Cybersecurity, and Full Stack Development.

I sincerely appreciate the efforts of our dedicated faculty members and enthusiastic students in making this magazine a meaningful platform for knowledge sharing and creative expression.

Let us continue to learn, innovate, and excel together!

Warm regards,
Dr. Laxman Singh
Program Coordinator – BCA & MCA
ABES Institute of Technology, Ghaziabad

Campus Pulse

ABESIT Teams Excel at Pitch To Prosper – 2026













The event Pitch To Prosper – 2026 celebrated the achievements of ABESIT teams and its incubated startups in developing innovative, technology-driven solutions on 18th September 2026.

Team Aqua Balance won First Prize (₹10,000) for its water management solution. The team comprises Palak Chaudhary, Priya Tomar, and Priyanshi Dhama. Team GeoPathos secured Second Prize (₹7,000) for its AI-powered healthcare solution, with Harsh Rohila, Shreya Shukla, and Ananya Vats as team members. Additionally, ABESIT-incubated startups GeoPathos and Tech Jivitam (Adwitiya) secured Second and Third Prizes, respectively, showcasing the institute's commitment to innovation, entrepreneurship, and impactful technological solutions.

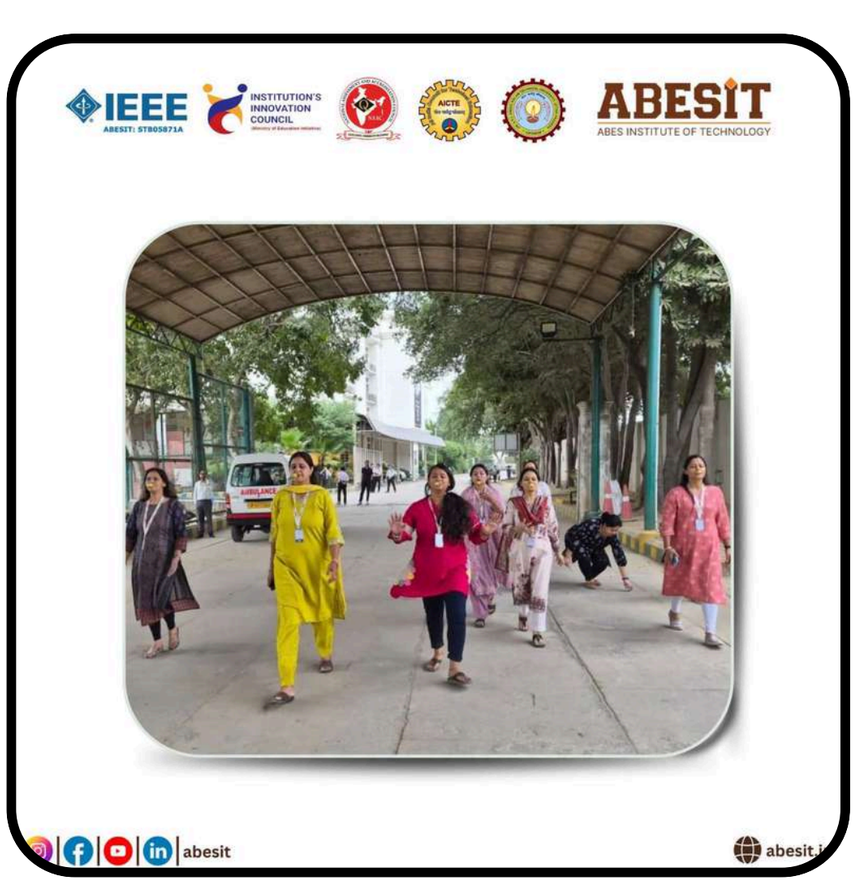
CODEATHON 5.0 – Round 2: Mini Project Competition



The Institution's Innovation Council (IIC), ABESIT, in collaboration with IEEE ABESIT, organized CODEATHON 5.0 – Round 2 on 1st October 2026. Based on the theme "Ideas Today - Better Tomorrow," the competition provided third-year students with a platform to showcase their innovative mini-projects, creativity, and technical skills. The event was convened by Prof. (Dr.) Kanika Taneja.

Campus Pulse

Sports Fest 2026









The Happiness Club, ABESIT, organized Sports Fest '26 for faculty and staff members on 26th September 2026. The event brought participants together in a joyful atmosphere focused on sports, enthusiasm, teamwork, fitness, and healthy competition. It provided an opportunity to celebrate the spirit of sports and create memorable moments beyond the workplace.

Beyond the Campus

Lenovo LEAP Hackathon 2026



Team Codengers of ABES Institute of Technology, Ghaziabad, secured 7th position among approximately 100 teams at the Lenovo LEAP Hackathon 2026 in Lucknow. Harshit (BCA) and Rajkumar Kushwaha (2nd Year, CSE–AI) presented an Annual Report Portal for the Ministry of Ayush, featuring smart validation and automated report generation to enhance efficiency, accuracy, and transparency.

INDIBUS Showcases AI Innovation at UPITS 2026





ABESIT-incubated startup INDIBUS Softwares Solutions Pvt. Ltd. participated in the Uttar Pradesh International Trade Show (UPITS) 2026, held from 25th to 29th September 2026 at India Expo Centre & Mart, Greater Noida. The startup showcased its Autonomous AI Marketing Platform, leveraging Marketing LLM and Agentic AI to simplify and automate business marketing activities.

Beyond the Campus

ABESIT receives AKTU Outstanding Pre-Incubator Award





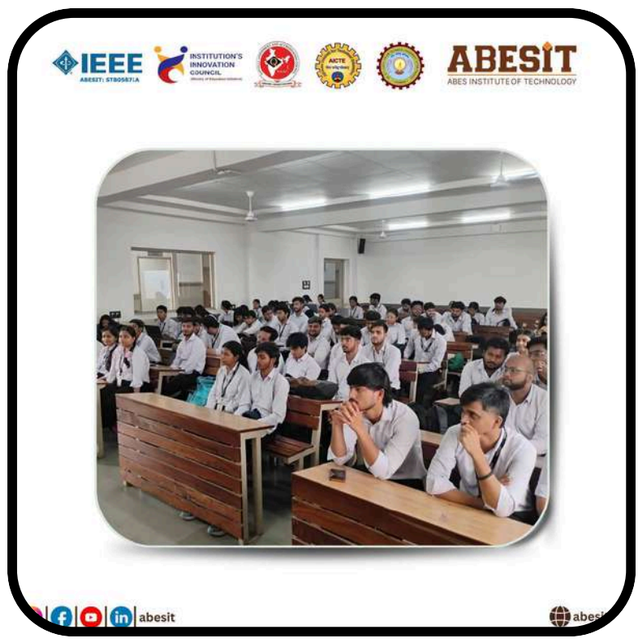


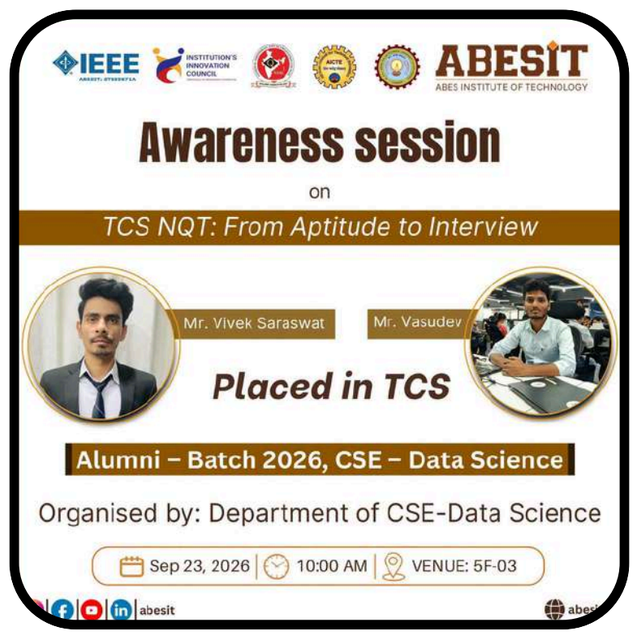
ABES Institute of Technology was proudly honored with a Certificate of Excellence and the AKTU Outstanding Pre-Incubator Award at the AKTU Startup Samwad 3.0 event held on 8th September 2026. This prestigious recognition acknowledges the institute's efforts in nurturing innovation, promoting entrepreneurship, and supporting aspiring student entrepreneurs in transforming their ideas into successful startup ventures. It reflects ABESIT's continued commitment to building a strong innovation ecosystem and encouraging technology-driven solutions.

Knowledge Junction

Awareness Session on 'TCS NQT and Interview Preparation'







The Department of CSE – Data Science, ABESIT, organized an awareness session on "TCS NQT: From Aptitude to Interview" on 23rd September 2026. The session featured ABESIT alumni Mr. Vivek Saraswat and Mr. Vasudev (Batch 2026), currently placed at TCS, who shared practical insights on aptitude preparation, examination patterns, interview strategies, and campus placement experiences. The session helped students understand the recruitment process and prepare confidently for future career opportunities.

Expert Talk on 'Intelligent Enterprise Applications'







The Department of CSE – Data Science, ABESIT, organized an expert talk on "Building Intelligent Enterprise Applications: The Journey from Data Structures to Machine Learning and Generative AI" on 9th September 2026. Mr. Praveen Kumar, Associate General Manager at HCLTech, shared valuable industry insights on transforming foundational programming concepts into intelligent, real-world applications using Machine Learning and Generative AI.

Knowledge Junction

Workshop on 'Measurable Course Outcomes Using Bloom's Taxonomy'



On 3rd September 2026, the Department of CSE – Data Science, ABESIT, organized a workshop led by Dr. Ashish Kumar Mourya, Associate Professor. The session focused on framing measurable course outcomes, aligning teaching and assessment methods, and improving the effectiveness of Outcome-Based Education (OBE).

Strengthening Research and Innovation Ecosystems in HEIs





On 2nd September 2026, IIC-ABESIT participated in a MIC-driven activity titled "Strengthening Research and Innovation Ecosystems in HEIs: Leveraging Manthan and Utthan for Institutional Transformation." Organized with the Office of the Principal Scientific Adviser to the Government of India, the session emphasized strengthening research, promoting innovation, encouraging collaboration, and supporting institutional transformation in higher education.

Faculty Laurels

IEEE Conference Paper Publication



We proudly congratulate Mr. Avdhesh Kumar Tiwari, Assistant Professor, Department of Computer Science & Engineering, on the successful publication of his conference paper, "YOLO-Mobile Net Based Disease Detection in Tomato, Apple and Grapevine," at an IEEE International Conference.We appreciate his valuable contribution to teaching, research, and academic excellence and wish him continued success in his research endeavors.

Recognition as Session Chair at MAI-2026





ABESIT congratulates Dr. Rachit Patel, Associate Professor, Department of Applied Sciences & Humanities, for serving as a Session Chair at the 6th International Conference on Machine Vision & Augmented Intelligence (MAI-2026), organized by SVNIT Surat, from 11th to 13th September 2026. His contribution reflects his commitment to academic excellence and research advancement.

Faculty Laurels

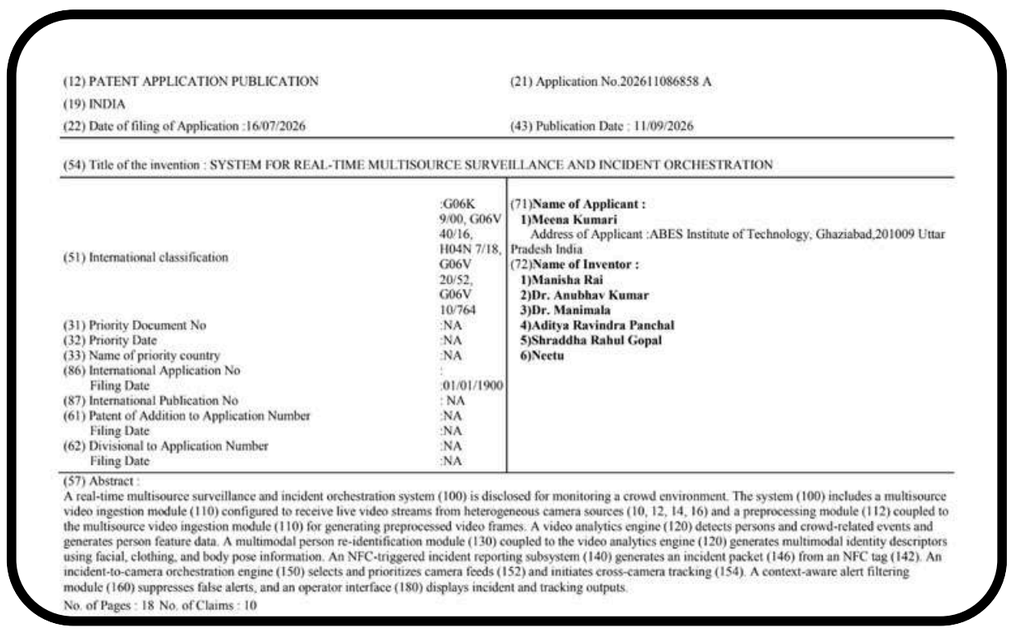
Recognition as Session Chair at MAI-2026





ABESIT congratulates Dr. Aakansha Garg, Associate Professor, Department of Applied Sciences & Humanities, for serving as a Session Chair at the 6th International Conference on Machine Vision & Augmented Intelligence (MAI-2026), organized by the Department of Electronics Engineering, SVNIT Surat, from 11th to 13th September 2026. Her contribution reflects her commitment to academic excellence and research advancement.

Patent Publication on Real-Time Surveillance and Incident Management



(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/07/2026

(21) Application No.202611086858 A
(43) Publication Date : 11/09/2026

(54) Title of the invention : SYSTEM FOR REAL-TIME MULTISOURCE SURVEILLANCE AND INCIDENT ORCHESTRATION

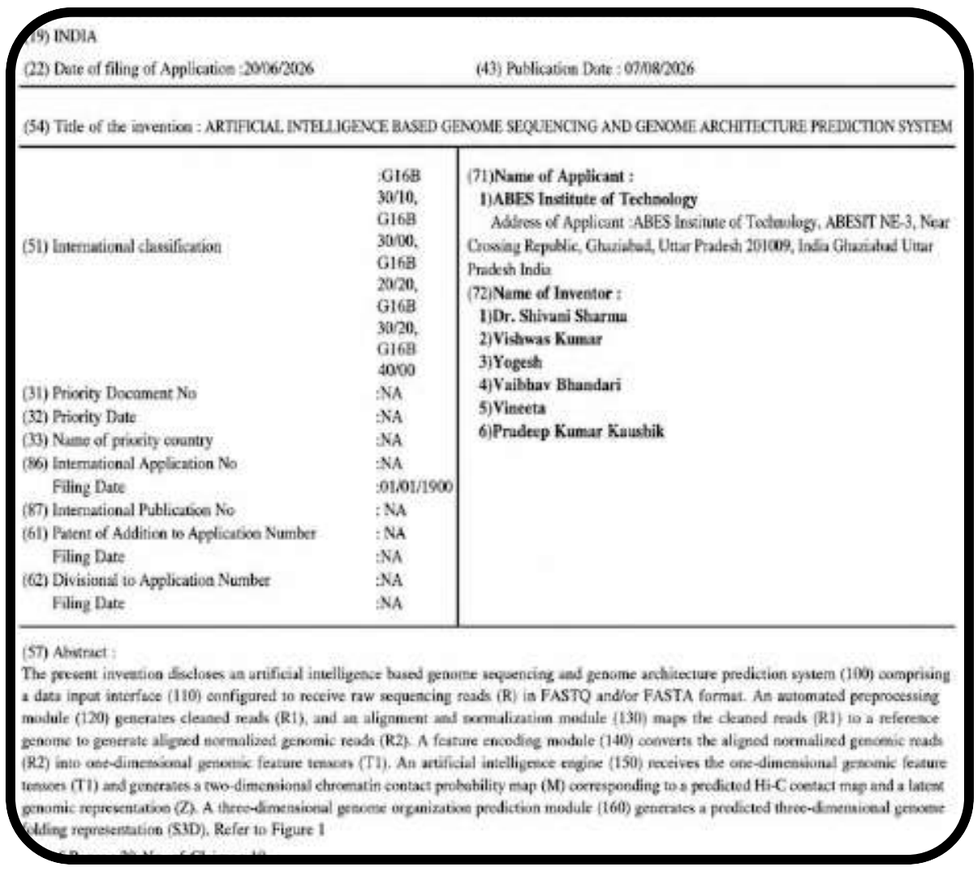
(51) International classification	:G06K 9/00, G06V 40/16, H04N 7/18, G06V 20/52, G06V 10/764	(71)**Name of Applicant :** **1)Meena Kumari** Address of Applicant :ABES Institute of Technology, Ghaziabad,201009 Uttar Pradesh India (72)**Name of Inventor :** **1)Manisha Rai** **2)Dr. Anubhav Kumar** **3)Dr. Manimala** **4)Aditya Ravindra Panchal** **5)Shraddha Rahul Gopal** **6)Neetu**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
A real-time multisource surveillance and incident orchestration system (100) is disclosed for monitoring a crowd environment. The system (100) includes a multisource video ingestion module (110) configured to receive live video streams from heterogeneous camera sources (10, 12, 14, 16) and a preprocessing module (112) coupled to the multisource video ingestion module (110) for generating preprocessed video frames. A video analytics engine (120) detects persons and crowd-related events and generates person feature data. A multimodal person re-identification module (130) coupled to the video analytics engine (120) generates multimodal identity descriptors using facial, clothing, and body pose information. An NFC-triggered incident reporting subsystem (140) generates an incident packet (146) from an NFC tag (142). An incident-to-camera orchestration engine (150) selects and prioritizes camera feeds (152) and initiates cross-camera tracking (154). A context-aware alert filtering module (160) suppresses false alerts, and an operator interface (180) displays incident and tracking outputs.
No. of Pages : 18 No. of Claims : 10

ABES Institute of Technology announces the publication of a patent application titled "System for Real-Time Multisource Surveillance and Incident Orchestration" on 11th September 2026. The system integrates AI-powered video analytics and multisource camera feeds to detect crowd-related events, track individuals, and improve incident reporting and management.

Faculty Laurels

Patent Publication on AI based Genome Sequencing & Genome Architecture Prediction System



(19) INDIA

(22) Date of filing of Application :20/06/2026 (43) Publication Date : 07/08/2026

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED GENOME SEQUENCING AND GENOME ARCHITECTURE PREDICTION SYSTEM

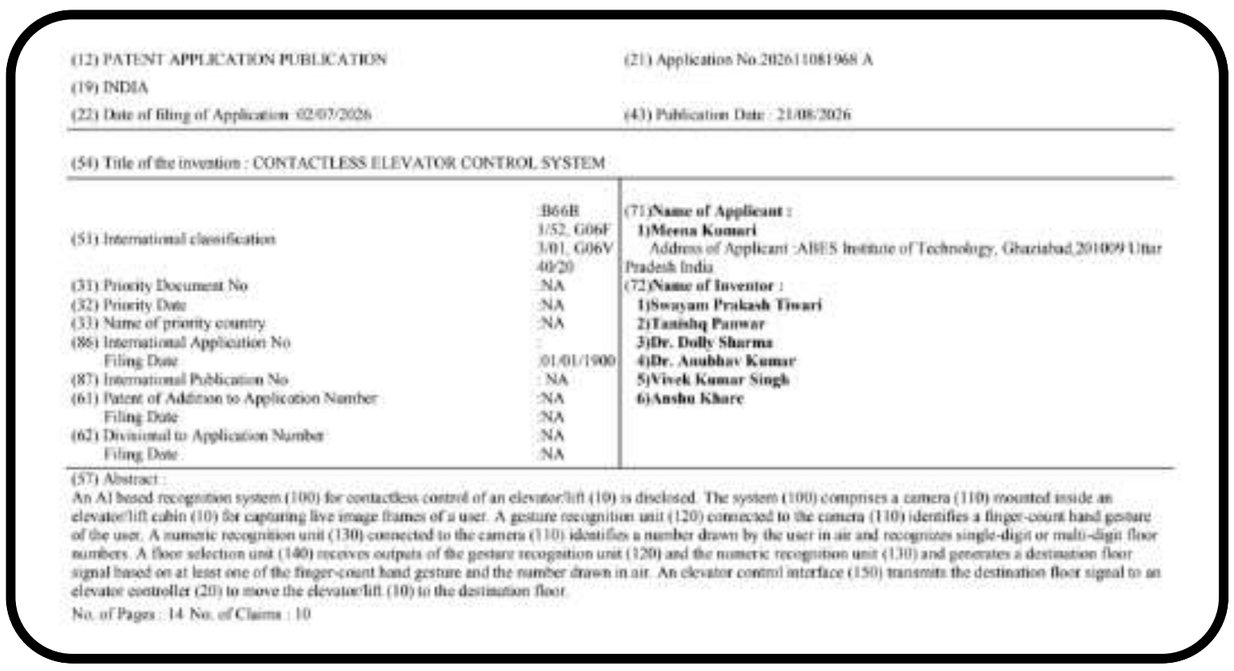
(51) International classification	:G16B 30/10, G16B 30/00, G16B 20/20, G16B 30/20, G16B 40/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	: NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)Yogesh
4)Vaibhav Bhandari
5)Vineeta
6)Pradeep Kumar Kaushik

(57) Abstract :
The present invention discloses an artificial intelligence based genome sequencing and genome architecture prediction system (100) comprising a data input interface (110) configured to receive raw sequencing reads (R) in FASTQ and/or FASTA format. An automated preprocessing module (120) generates cleaned reads (R1), and an alignment and normalization module (130) maps the cleaned reads (R1) to a reference genome to generate aligned normalized genomic reads (R2). A feature encoding module (140) converts the aligned normalized genomic reads (R2) into one-dimensional genomic feature tensors (T1). An artificial intelligence engine (150) receives the one-dimensional genomic feature tensors (T1) and generates a two-dimensional chromatin contact probability map (M) corresponding to a predicted Hi-C contact map and a latent genomic representation (Z). A three-dimensional genome organization prediction module (160) generates a predicted three-dimensional genome folding representation (S3D). Refer to Figure 1

ABESIT proudly announces the publication of a patent application titled "Contactless Elevator Control System". The proposed AI-based system enables users to select elevator floors through hand gestures and finger-drawn numbers, eliminating the need for physical contact with elevator buttons. This innovation promotes hygienic, convenient, and efficient elevator operation through advanced gesture recognition technology.

Patent Publication on Contactless Elevator Control System



(12) PATENT APPLICATION PUBLICATION (21) Application No.202611081968 A

(19) INDIA

(22) Date of filing of Application :02/07/2026 (43) Publication Date : 21/08/2026

(54) Title of the invention : CONTACTLESS ELEVATOR CONTROL SYSTEM

(51) International classification	:B66B 1/52, G06F 3/01, G06V 40/20
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	: :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)Dr. Dolly Sharma
4)Dr. Anubhav Kumar
5)Vivek Kumar Singh
6)Anshu Khare

(57) Abstract :
An AI based recognition system (100) for contactless control of an elevator/lift (10) is disclosed. The system (100) comprises a camera (110) mounted inside an elevator/lift cabin (10) for capturing live image frames of a user. A gesture recognition unit (120) connected to the camera (110) identifies a finger-count hand gesture of the user. A numeric recognition unit (130) connected to the camera (110) identifies a number drawn by the user in air and recognizes single-digit or multi-digit floor numbers. A floor selection unit (140) receives outputs of the gesture recognition unit (120) and the numeric recognition unit (130) and generates a destination floor signal based on at least one of the finger-count hand gesture and the number drawn in air. An elevator control interface (150) transmits the destination floor signal to an elevator controller (20) to move the elevator/lift (10) to the destination floor.
No. of Pages : 14 No. of Claims : 10

ABES Institute of Technology announces the publication of a patent application titled "Contactless Elevator Control System". The proposed AI-based system enables users to select elevator floors through hand gestures and finger-drawn numbers, eliminating the need for physical contact with elevator buttons. This innovation promotes convenient, hygienic, and intelligent elevator operation through gesture recognition technology.

Faculty Laurels

Expert Talk on - 'IoT for 6G Networks'





ABESIT congratulates Dr. Aakansha Garg, Associate Professor, Department of Applied Sciences & Humanities, for delivering an expert talk at the Two-Week Short-Term Training Programme (STTP) on "Internet of Things (IoT) for 6G Network," organized by the Department of Electronics Engineering, SVNIT Surat, from 23rd August to 6th September 2026.

Recognition as Review Committee Member at ACDSA 2027

ABESIT congratulates Mrs. Sadhana Singh, Assistant Professor, Department of CSE-AI, on her contribution as a Review Committee Member for the International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA 2027). Her involvement reflects her commitment to academic excellence and the advancement of research in emerging technologies.



Editorial Board



Dr. Sheetal Chandra
Assistant Professor (AS&H)

STUDENT COORDINATORS :

Priyanshi Jain - B.Tech, CSE-AI, Second Year
Pratham Mittal - B.Tech, CSE, Second Year
Priya Tomar - B.Tech, CSE, Second Year
Priyanshi Dhama - B.Tech, CSE, Second Year