(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2025
(21) Application No.202511099519 A
(43) Publication Date : 05/12/2025

(54) Title of the invention : A COMPUTER MODEL FOR REAL-TIME PEDESTRIAN SAFETY DETECTION

(51) International classification	:G08G0001010000, G06N0003080000, G08G0001160000, G08G0001005000, G08G0001096700
(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

(71)**Name of Applicant :**
1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY
Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(72)**Name of Inventor :**
1)Dr. VIVEK KUMAR
2)RAJAT KUMAR

(57) Abstract :
The present invention discloses a computer model for real-time pedestrian safety detection comprising multimodal sensors (101), a preprocessing unit (102), a feature extraction module (103), a deep learning model (104), an intent prediction engine (105), a safety alert generator (106), and an output interface (107). The system detects and predicts pedestrian behavior with high accuracy and low latency, ensuring proactive accident prevention. Deployable in vehicles, roadside units, and smart city infrastructures, the invention provides a robust, scalable, and intelligent solution for enhancing pedestrian safety in dynamic urban environments.

No. of Pages : 14 No. of Claims : 6