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(51) International classification	:G06V0040100000, G06V0020400000, A01B0079000000, C02F0003320000, A61B0005117100	(71) <b>Name of Applicant :</b> <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(57) Abstract :

The present invention relates to a computer vision-based wildlife monitoring system comprising wildlife image input devices (100), object detection and recognition unit (101), real-time alert system (102), spatiotemporal analysis module (103), and ecological data integration unit (104). The system identifies species in real-time, generates anti-poaching alerts, and integrates ecological datasets for advanced conservation insights. Equipped with retraining modules (105) and data analytics platform (106), the invention ensures scalable, adaptive, and cost-effective solutions for global biodiversity preservation and ecological management.

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