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(51) International classification	:B29C 48/19, B32B 3/04, H04N 19/187, B64D 17/74, D04H 1/16	(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 (72) <b>Name of Inventor :</b> <b>1)Dr. RITESH RASTOGI</b> <b>2)KAKUMANU PRABHANJAN KUMAR</b>
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(57) Abstract :

The present invention discloses a computer model (100) for real-time human activity classification that integrates multimodal sensor modules (101–103), preprocessing pipeline (104), deep learning classifier (105), real-time engine (106), fusion layer (107), edge deployment (108), and privacy-preserving unit (109). The invention achieves high-accuracy, low-latency activity recognition, adaptable across healthcare, security, fitness, and smart environments. It ensures scalability, efficiency, and data security, making it suitable for diverse real-world applications requiring instantaneous human activity classification.

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