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Patent Search

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Inventor

Name	Address	Country	Nat
Dr. S. Jana	Professor, Department of ECE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai, Tamilnadu - 600062	India	Indi
Dr. Gargishankar Verma	Associate Professor, Department of Computer Science and Engineering, Columbia Institute of Engineering and Technology, Raipur, Chattishgarh	India	Indi
Dr. Sheshang Degadwala	Associate Professor & Head of Department, Department of Computer Engineering, Sigma University, Vadodara, Gujarat	India	Indi
Dr. Thangam S.	Assistant Professor (SG), Amrita School of Computing, Bengaluru, Amrita Vishwa Vidhyapeetham, India	India	Indi
Dr. Haewon Byeon	Department of Digital Anti-Aging Healthcare, Inje University, Gimhae, Republic of Korea, 50834	Republic of Korea	Rep Kor
Dr. Shikha Kumari Pandey	Assistant Professor, Department of Chemistry, Institute of Aeronautical Engineering, Hyderabad, Telangana - 500043	India	Indi

Applicant

Name	Address	Country	Nat
Dr. S. Jana	Professor, Department of ECE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai, Tamilnadu - 600062	India	Indi
Dr. Gargishankar Verma	Associate Professor, Department of Computer Science and Engineering, Columbia Institute of Engineering and Technology, Raipur, Chattishgarh	India	Indi
Dr. Sheshang Degadwala	Associate Professor & Head of Department, Department of Computer Engineering, Sigma University, Vadodara, Gujarat	India	Indi
Dr. Thangam S.	Assistant Professor (SG), Amrita School of Computing, Bengaluru, Amrita Vishwa Vidhyapeetham, India	India	Indi
Dr. Haewon Byeon	Department of Digital Anti-Aging Healthcare, Inje University, Gimhae, Republic of Korea, 50834	Republic of Korea	Rep Kor
Dr. Shikha Kumari Pandey	Assistant Professor, Department of Chemistry, Institute of Aeronautical Engineering, Hyderabad, Telangana - 500043	India	Indi

Abstract:

The present invention relates to provide a deep learning-based method for suspicious activity recognition by patterns of walking behavior. The present invention is a limitation of rule-based security systems. It introduces decentralized training, using smartphones for data collection and generative adversarial networks for anomaly detection. This innovative method adapts to various patterns, cultures, and contexts while ensuring privacy. The architecture evolves through continuous crowd-generated learning, enhancing resilience and relevance. Edge devices and democratized data collection minimize barriers, providing a globally functional solution for security.

Complete Specification

Description: Technical field of invention:

The present invention relates to provide a deep learning-based method for suspicious activity recognition by patterns of walking behavior.

Background:

Suspicious activity recognition has become a crucial aspect of modern security systems. Traditional methods often rely on rule-based systems and hand-crafted features limiting their adaptability and effectiveness.

The present invention discloses a groundbreaking deep learning-based method, for recognizing suspicious activities through the analysis of patterns in walking behavior.

Unlike previous research, the present invention offers a truly decentralized and crowd-generated solution, making it capable of functioning anywhere, anytime, and by anyone.

Groupings of alternative elements or embodiments of the invention disclosed herein are not to be construed as limitations. Each group member can be referred to

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