Scopus

🔍 ☰

⤓ Download   🖶 Print   ✉ E-mail   📄 Save to PDF   ☆ Add to List   More... ⟩

[Full Text]

Document type
Conference Paper

Source type
Book Series

ISSN
18761100

ISBN
978-981162405-6

DOI
10.1007/978-981-16-2406-3_26

Publisher
Springer Science and Business Media Deutschland GmbH

Original language
English

Volume Editors
Isa K., Md. Zain Z., Mohd-Mokhtar R., Mat Noh M., Ismail Z.H., Yusof A.A., Mohamad Ayob A.F., Azhar Ali S.S., Abdul Kadir H.

View less ∧

Video-Based Abnormal Behaviour Detection in Smart Surveillance Systems

Khalifa, Othman O. ✉ ;   Abdul Khodir, Hazwani ;   Abdul Malik, Noreha ✉ ;   Abdul Malek, Norun Farihah

📖 Save all to author list

ᵃ Electrical and Computer Engineering, International Islamic University Malaysia, Kuala Lumpur, Malaysia

21
Views count ⑦ ↗

View all metrics ⟩

Full text options ⌄   ⤴ Export

Abstract

Author keywords

Indexed keywords

SciVal Topics

Metrics

Funding details

Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert ⟩]

Related documents

Automated daily human activity recognition for video surveillance using neural network
Babiker, M. , Khalifa, O.O. , Htike, K.K.
(2018) 2017 IEEE International Conference on Smart Instrumentation, Measurement and Applications, ICSIMA 2017

An end-to-end deep learning approach for simultaneous background modeling and subtraction
Mondéjar-Guerra, V. , Rouco, J. , Novo, J.
(2020) 30th British Machine Vision Conference 2019, BMVC 2019

Harris corner detector and blob analysis featuers in human activty recognetion
Babiker, M. , Khalifa, O.O. , Htike, K.K.
(2018) 2017 IEEE International Conference on Smart Instrumentation, Measurement and Applications, ICSIMA 2017

View all related documents based on references

Find more related documents in Scopus based on:

Authors ⟩   Keywords ⟩

Abstract

Due to increasing demand for security, the instant detection of abnormal behavior in video surveillance systems becomes a critical issue in a smart surveillance system. The currently applied semiautomatic systems mainly depend on human intervention to detect the abnormal activities and suspicious human behaviours from video context. Due to these limitations, it has become an urgent need for intelligence systems to avoid the very slow response and reduce the human observer and interventions. In this paper, a method that can trace abnormalities of human behaviour from video is presented. Techniques related to bounding box measurements and descriptions for behaviour representation were used. Moreover, the performance evaluation of the proposed method is presented. © 2022, The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd.

Author keywords

Abnormality detection ; Human activities; Motion analysis; Video surveillance systems

Indexed keywords   ⌄

SciVal Topics ⓘ   ⌄

Metrics   ⌄

Funding details   ⌄

References (11)   View in search results format ⟩

☐ All

Export   🖶 Print   ✉ E-mail   📄 Save to PDF   Create bibliography

☐ 1   Borkar, A., Nagmode, M.S., Pimplaskar, D.
        Real time abandoned bag detection using OpenCV
        (2013) *Int J Sci Eng Res*, 4 (11), p. 660. Cited 7 times.

☐ 2   Bouwmans, T.

        Traditional and recent approaches in background modeling
        for foreground detection: An overview

        (2014) *Computer Science Review*, 11-12, pp. 31-66. Cited 549 times.
        doi: 10.1016/j.cosrev.2014.04.001

        View at Publisher

☐ 3   Butler, D.E., Bove Jr., V.M., Sridharan, S.

        Real-time adaptive foreground/background segmentation
        (Open Access)

        (2005) *Eurasip Journal on Applied Signal Processing*, 2005 (14), pp. 2292-
        2304. Cited 51 times.
        doi: 10.1155/ASP.2005.2292

        View at Publisher

4.   Ćulibrk, D., Marques, O., Socek, D., Kalva, H., Furht, B.

Neural network approach to background modeling for video object segmentation

(2007) *IEEE Transactions on Neural Networks*, 18 (6), pp. 1614-1627. Cited 146 times.
doi: 10.1109/TNN.2007.896861

View at Publisher

5.   Mishra, M.S., Jtmcoe, F., Bhagat, K.S.
A survey on human motion detection and surveillance
(2015) *Int J Adv Res Electron Commun Eng*, p. 4. Cited 16 times.
IJARECE

6.   Wang, W.-J., Chang, J.-W., Haung, S.-F., Wang, R.-J.

Human Posture Recognition Based on Images Captured by the Kinect Sensor (Open Access)

(2016) *International Journal of Advanced Robotic Systems*, 13 (2), art. no. 62163. Cited 34 times.
http://arx.sagepub.com/content/by/year
doi: 10.5772/62163

View at Publisher

7.   Htike, K.K., Khalifa, O.O., Ramli, H.A.M., Abushariah, M.A.M.

Human activity recognition for video surveillance using sequences of postures

(2014) *2014 3rd International Conference on e-Technologies and Networks for Development, ICeND 2014*, art. no. 6991357, pp. 79-82. Cited 34 times.
ISBN: 978-147993166-8
doi: 10.1109/ICeND.2014.6991357

View at Publisher

8.   Lavee, G., Khan, L., Thuraisingham, B.

A framework for a video analysis tool for suspicious event detection

(2007) *Multimedia Tools and Applications*, 35 (1), pp. 109-123. Cited 42 times.
doi: 10.1007/s11042-007-0117-8

View at Publisher

9.   Hu, Y.

Design and Implementation of Abnormal Behavior Detection Based on Deep Intelligent Analysis Algorithms in Massive Video Surveillance

(2020) *Journal of Grid Computing*, 18 (2), pp. 227-237. Cited 18 times.
http://www.kluweronline.com/issn/1570-7873
doi: 10.1007/s10723-020-09506-2

View at Publisher

10.   Zhong H, Shi I, Visontai M (2004) Detecting unusual activity in video. In: 2004 IEEE Computer Vision and Pattern Recognition, vol 2, pp II-819–II-826

11 Khan, Z.A., Sohn, W.

Abnormal human activity recognition system based on R-transform and kernel discriminant technique for elderly home care

(2011) *IEEE Transactions on Consumer Electronics*, 57 (4), art. no. 6131162, pp. 1843-1850. Cited 98 times.
doi: 10.1109/TCE.2011.6131162

View at Publisher

Abdul Malik, N.; Electrical and Computer Engineering, International Islamic University Malaysia, Kuala Lumpur, Malaysia; email:norehaa@iium.edu.my

About Scopus

What is Scopus

Content coverage

Scopus blog

Scopus API

Privacy matters

Language

日本語版を表示する

查看简体中文版本

查看繁體中文版本

Просмотр версии на русском языке

Customer Service

Help

Tutorials

Contact us