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4 February 2015, Article number 7031644, Pages 232-235

5th International Conference on Computer and Communication Engineering, ICCCE 2014; Sunway Putra HotelKuala Lumpur; Malaysia; 23 September 2014 through 24 September 2014; Category numberE5413; Code 110844

Adaptive background reconstruction for street surveillance (Conference Paper)

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Abstract

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In recent years, adaptive background reconstruction works have found interest in many researchers. However, the existing algorithms that have been proposed by other researchers still in the early stage of development and many aspects need to be improved. In this paper, an adaptive background reconstruction is presented. Past pixel observation is used. The proposed algorithm also has eliminated the need of the pre-training of non-moving objects in the background. The proposed algorithm is capable of reconstructing the background with moving objects in video sequence. Experimental results show that the proposed algorithms are able to reconstruct the background correctly and handle illumination and adverse weather that modifies the background. © 2014 IEEE.

Author keywords

adaptive background reconstruction background subtraction frame differencing mode filtering

Indexed keywords

Engineering controlled terms: Computers

Adaptive backgrounds
Adverse weather
Background subtraction
Frame differencing
Mode filtering
Moving objects
Pre-training
Video sequences

Engineering main heading: Algorithms

ISBN: 978-147997635-5

Source Type: Conference Proceeding

Original language: English

DOI: 10.1109/ICCCE.2014.73

Document Type: Conference Paper

Volume Editors: Gunawan T.S.

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