Abstract

Video surveillance is an important area of computer vision research, its applications including both outdoor and indoor automated surveillance systems. Detecting through video image processing is one of the most attractive alternative new technologies as it offers opportunities for performing substantially more complex tasks and providing more information than other sensors. Video Surveillance systems have as main goal to control the safety and the security of materials of which utilizing people. This paper provides an overview of various methods and techniques from the research area that address the problems of representation, recognition and learning of events, actions and activities of inhabitants from an environment.

References


20. M.Isard and A.Blake, "CONDENSATION conditional density propagation for visual
23. J.Aggarwal and M.Ryoo, “Human activity analysis: A review machine recognition of
25. Y.Ke, R.Sukthankar, and M.Hebert, “Spatio-temporal shape and correlation for action
recognition in video using background modeling and spatio-temporal template matching based
 technique,” in Proc. of the Int. Conf. on Advances in Computing and Artificial Intelligence, 2011,
32. A.Wiliem, V.Madasu, W. Boles, and P.Yarlagadda, “Context space model for detecting
anomalous behaviour in video surveillance,” in Proc. IEEE Int. Conf. on Information Technology.
33. A.Veeraraghavan, R.Chellappa, and A.Roy-Chowdhury, “The function space of an
959–968.
34. R.Lublinerman, N.Ozay, D.Zarpalas, and O. Camps, “Parameterized modeling and
35. N. Diehl, Object-Oriented Motion Estimation and Segmentation in Image Sequences,
36. Nikos Paragios, Rachid Deriche Geodesic Active Contours and Level Sets for the
Detection and Tracking of Moving Objects, IEEE Transactions on Pattern Analysis and Machine
37. Lei Xie; Guangxi Zhu; Yuqi Wang; Haixiang Xu; Zhenming Zhang; Robust vehicles
extraction in a video-based intelligent transportation systems IEEE 2005 International
Conference on Communications, Circuits and Systems, Volume 2, 27-30 May 2005
Page.887-890.
38. H.H.Nagel, G.Socher, H.Kollnig, and M.Otte, Motion Boundary Detection in Image


51. Hanzi Wang; Suter, D.; A re-evaluation of mixture of Gaussian background modeling ICASSP '05). IEEE International Conference on video signal processing applications Vol. 2 Page(s) 1017 - 1020.


Index Terms

Computer Science  
Image Processing

Keywords

Video surveillance; tracking; Shadow removes; Motion detection.