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(51) International classification	:G06K0009000000, G06K0009620000, G06N0003040000, G06K0009320000, G06T0007254000	(71)Name of Applicant : <b>1)Dr. P. KALAIVANI</b> Address of Applicant :NO. 6, RAMAKRISHNA AVENUE, FIRST STREET, AMBAL NAGAR, MANGADU, CHENNAI - 600122, TAMILNADU, INDIA. Tamil Nadu India <b>2)Dr. P. SARAVANAKUMAR</b> <b>3)Mr. S.VIJAYKUMAR</b> <b>4)Dr. S. VIMALA</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1) Dr. P. KALAIVANI</b> <b>2)Dr. P. SARAVANAKUMAR</b> <b>3)Mr. S.VIJAYKUMAR</b> <b>4)Dr. S. VIMALA</b>
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(57) Abstract :

Human Action Recognition (HAR) is a vital and one of the many exigent areas where complex problems are targeted by computer vision researchers. Automatic recognition of human activities in video would be useful for surveillance, content-based summarization, and human-computer interaction applications. Still it remains the challenging problem in the area of Human Action Recognition. Many works have demonstrated the difficulty of the problem associated with the large variation of human action recognition. This present work incorporates a new approach of the Lucas-Kanade (LK) method for Human Action Recognition. Background subtraction method is applied for separating the foreground objects from the static background image in a sequence of video frames. The preprocessed silhouette images are stored as training dataset which is used for action recognition and optical flow analysis. The present method gives better results comparing with existing LK method.

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