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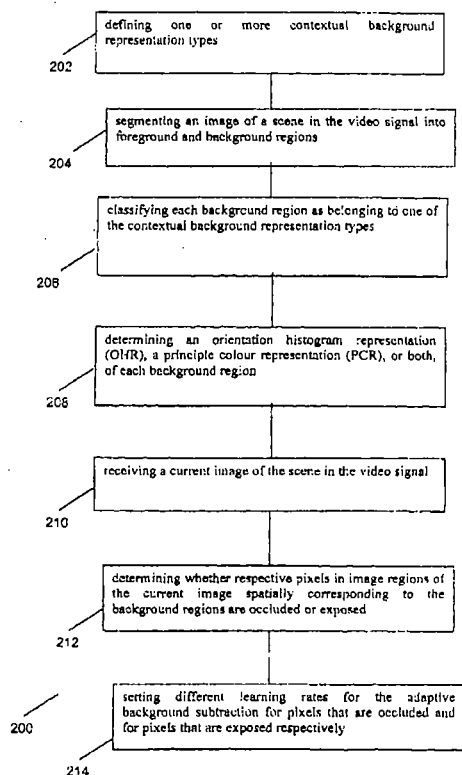
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(54) Title: METHOD AND SYSTEM FOR CONTEXT-CONTROLLED BACKGROUND UPDATING



(57) Abstract: A method and system for background updating for adaptive background subtraction in a video signal. The method comprises the steps of defining one or more contextual background representation types; segmenting an image of a scene in the video signal into contextual background regions; classifying each contextual background region as belonging to one of the contextual background representation types; determining an orientation histogram representation (OHR), a principle colour representation (PCR), or both, of each background region; receiving a current image of the scene in the video signal; determining whether respective pixels in image regions of the current image spatially corresponding to the background regions are occluded or exposed; and setting different learning rates for the adaptive background subtraction for pixels that are occluded and for pixels that are exposed respectively.

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