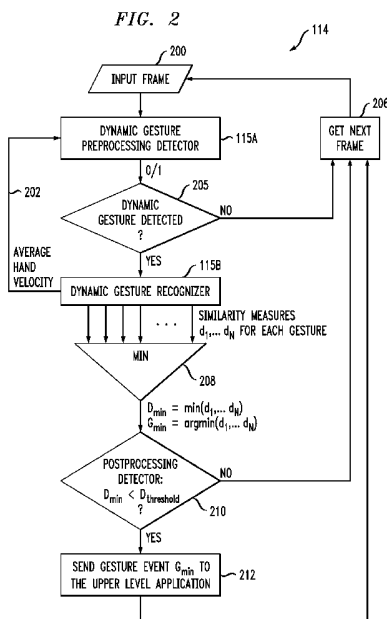




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(54) Title: DYNAMIC HAND GESTURE RECOGNITION WITH SELECTIVE ENABLING BASED ON DETECTED HAND VELOCITY



(57) Abstract: An image processing system comprises an image processor configured to determine velocity of a hand in a plurality of images, and to selectively enable dynamic gesture recognition for at least one image responsive to the determined velocity. By way of example, the image processor illustratively includes a dynamic gesture preprocessing detector and a dynamic gesture recognizer, with the dynamic gesture preprocessing detector being configured to determine the velocity of the hand for a current frame and to compare the determined velocity to a specified velocity threshold. If the determined velocity is greater than or equal to the velocity threshold, the dynamic gesture recognizer operates on the current frame, and otherwise the dynamic gesture recognizer is bypassed for the current frame. The dynamic gesture recognizer when enabled is configured to generate similarity measures for respective ones of a plurality of gestures of a gesture vocabulary for the current frame.

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