

METHOD AND SYSTEM FOR LEARNING HPC FOR HUMAN DETECTION IN VIDEO DATA

ABSTRACT

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A method and system for learning human perspective context (HPC) for human detection in video data and a data storage medium having computer code means for instructing a computing device to execute a method of learning HPC for human detection in video data. The method comprises the steps of selecting a plurality of samples based on human detection from the video data; categorizing a camera tilt angle into one of two or more categories based on the selected samples; and learning the HPC from the selected samples; wherein the samples are filtered based on the categorization of the camera tilt angle prior to learning the HPC, a model calculation for the HPC is based on the categorization of the camera tilt angle, or both. Preferably, the method of learning the HPC comprises a model estimation - data tuning (ME-DT) algorithm. Advantageously, the learned HPC is applied for efficient and accurate human detection.

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FIG. 1

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