

Dietary Application through Image Processing for Calorie Management

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Abstract: "Support Vector Machine" (SVM) is a supervised machine learning algorithm that can be used for both classification or regression challenges. However, it is mostly used in classification problems. In the SVM algorithm, we plot each data item as a point in n -dimensional space (where n is a number of features you have) with the value of each feature being the value of a particular coordinate. Then, we perform classification by finding the hyper-plane that differentiates the two classes very well. Support Vectors are simply the coordinates of individual observation. The SVM classifier is a frontier that best segregates the two classes (hyper-plane/ line).

Keywords: Support Vector Machine (SVM), Image Processing, Fuzzy Color and Texture Histogram (FCTH), Color and Edge Directivity Descriptor (CEDD)

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