Abstract

The current work proposes a methodology for recognition of flags of the countries of the world from their digital images. Statistical features extracted from the color channels are combined together to generate the feature vector for discrimination between the flags. Since colors and their layouts can be quite similar between various flags, identifying them reliably can be challenging if the number of images increases. The proposed approach partitions the images into non-overlapping cells and generates a vector for each cell. The features are subsequently fed to a K-NN classifier for class discrimination. A dataset involving 400 flag images is used to test performance of the system.

References

11. World Flag Database (URL: www.flags.net)
12. Flags of the World (URL: www.crwflags.com)
13. Flagpedia (URL: www.flagpedia.net)

Index Terms

Computer Science

Information Sciences

Keywords

Flag recognition, color features, k-NN classifier.