Abstract

Machine learning is the ability of the machine to capture the data, analyze it, and make a decision as if a human being performs in everyday life. Sometimes it is also referred to as pattern recognition or classification. With the use of latest computing technology and soft computing, it is now possible for machines to act with intelligence as a human being. Various industries like automobile, medical diagnosis are using machines for fast and accurate data capturing and analyzing. Our study is conducted to justify these machine abilities in the field of floriculture. A knowledge base in the flower domain is used for the Intra-class sorting purpose. The flower sorter is designed to capture the flower images and with an artificial neural network classifier, the images are classified in four flower color classes. In the study, supervised learning algorithms are used for machine learning. The classification accuracy of the flower sorter is found to be 98%.

References

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unhealthy region of plant leaves and classification of plant leaf diseases using texture features,


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Index Terms

Computer Science

Pattern Recognition
Keywords
Machine Learning; Classification; Flower; Sorting; ANN; Knowledge base.