International Journal of Agricultural Sciences
Volume 13 | Issue 1 | January, 2017 | 77-82 ■ e ISSN-0976-5670
DOI:10.15740/HAS/IJAS/13.1/77-82
Visit us : *www.researchjournal.co.in*

RESEARCH PAPER

Application of image processing in the field of agriculture for the work of classification of citrus plant leaf diseases

D. K. PARMAR*, R. S. PARMAR AND H. K. PATEL
College of Agricultural Information Technology, Anand Agricultural University, ANAND (GUJARAT) INDIA
(Email: dkparmar@aau.in)

Abstract : In the investigation of finding and analyzing leaf diseases by computer vision interestingly in the field of agriculture, attribute collection and shape categorization is main difficulty in pattern recognition and affects the propose and concert of the classifier. Leaf dots can be analytic of crop diseases there leaf spots are typically examined physically and subjected to connoisseur opinion. In this article leaf disease uncovering and diagnosis system is urbanized to mechanize the examination of exaggerated leaves and helps finding the disease type and so give remedial action. The urbanized system consists of number of stages which includes HSI alteration, histogram investigation and concentration adjustment. The other stage is segmentation which has alteration of fuzzy feature algorithm parameter to fit the submission in concern. Attribute extraction is the next coming stage which deals with number of features. Citrus plants such as lemon, orange and grapes are mainly affected by various diseases which affect the fruit production to these plants. Citrus disease identification and solution is important for increasing the quality and quantity of the production of these plants.

Key Words : Application, Image processing, Field, Agriculture, Classification, Citrus plant, Leaf diseases

View Point Article : Parmar, D.K., Parmar, R.S. and Patel, H.K. (2017). Application of image processing in the field of agriculture for the work of classification of citrus plant leaf diseases. *Internat. J. agric. Sci.*, **13** (1) : 77-82, **DOI:10.15740/HAS/IJAS/13.1/77-82.**

Article History : Received : 04.10.2016**; Revised :** 16.11.2016**; Accepted :** 15.12.2016

*** Author for correspondence:**