Fruit Grading Using Digital Image Processing Techniques

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Abstract: New safe and fast methods for grading of fruits have important place in agricultural economy. At the present time traditional grading methods have still been used broadly. But high costs and some inconsistencies guide post harvesting industry to automation applications in classification operations.

Recently, enterprises incline towards to automation systems for increasing working capacity and decreasing working costs. Inconsistencies associated with manual grading decrease when automated grading systems are used. Thus, error rate and costs decrease while speed increases.

As known; size, shape, color and tissue are base criteria in the classification process. In this study, automatic apple grading by size and color using digital cameras and computerized image processing techniques were studied. The assembled system has achieved basic tasks but it needs to be developed further.

Key words: Image process, Digital image process, Machine vision, Fruit classification

Bilgisayarlı Görüntü İşleme Yöntemleri ile Elma Tasnifi

Özet: Meyvelerin güvenilir ve hızlı bir şekilde sınıflandırılması için geliştirilen yeni yöntemler, tarımsal endüstride teknik ve ekonomik açıdan önemli bir yere sahiptir. Günümüzde halen yaygın olarak el ile sınıflandırma yöntemi kullanılmaktadır. El ile yapılan sınıflandırmadaki yüksek maliyet ve olası tutarsızlıklar hasat sonrası endüstriyi sınıflama operasyonlarında otomasyon uygulamasına gitmeye yönlendirmektedir.

Son yıllarda işletmeler iş kapasitelerini arttırmak ve işletme maliyetlerini düşürmek amacıyla otomasyon sistemlerine yönelmektedir. Otomatik sınıflandırma ile meyve tasnifi sayesinde el ile sınıflandırmada yaşanabilecek insan faktöründen kaynaklanan tutarsızlıklar en aza inerek hata oranı büyük ölçüde düşmekte, hız artmakta ve maliyet azalmaktadır.

Bilindiği gibi geleneksel yöntemlerle elmaların sınıflandırılmasında boyut, şekil, renk ve doku gibi özellikler sınıflandırmanın temel kriterleridir. Bu çalışmada dijital kameralar ve bilgisayarlı görüntü işleme teknikleri kullanılarak elmaların otomatik olarak boy ve renk ayrımı yapılmaya çalışılmıştır. Elde edilen düzenek temel olarak işlevlerini yerine getirmede birlikte gelişime açıktır.

Anahtar kelimeler: Görüntü işleme, Sayısal Görüntü işleme, Makine görüsü, Meyve tasnifi.

INTRODUCTION

Summary of Literature

In the studies of non destructive fruit classification apple (Bern *et al.*, 2002; Bennedsen *et al.*, 2005; Rehkugler *et al.*, 1986), tomato (Wolfe *et al.*, 1989), orange (Pla *et al.*, 1995), wild myrtle and pepper (Wolfe *et al.*, 1985), prune (Delwiche *et al.*, 1993), wild grass (Hagger *et al.*, 1983), potato (McClure *et al.*, 1988) was examined.

To detect the fruit in front of camera, in some studies images taking from the camera are processing continuously (Hagger *et al.*, 1983, 1984) on the other hand some studies use sensor (Shropshire *et al.*, 1988).

Various studies have been done on the colors of fruit. Bern (2002), make color classification using RGB color components and CIE chromaticity with Matlab, make size classification with form factor and box structure methods.

McClure (1988) works with white potatoes to detect size and shape information. Rehkugler and Throop (1986) works with "Red Delicious" apples to detect defects of apples. Monochrome camera was used in both studies. At the end of works greens and other scars of potatoes creases and blemishes (reddish brown) of apples couldn't detected with

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