IMAGING WITH RADIATION
1st National Conference and Workshop: 23   27 Sept 2013

Contribution ID: **33**   Type: **Poster Presentation**

Towards Automatic Detection of Infested Oranges using Computed Tomography Imaging

Monday, 23 September 2013 15:10 (2h 20m)

The South African Radiography and Tomography Centre (SANCRAT) hosts a Microfocus X-ray tomography system (μCT) which is extensively being utilized in non-destructive examination research projects originating from higher educational institutes and research councils. In the biosciences field of application, oranges for export have to be free of infestation (larvae from moths and fruit flies); thus, μCT has been utilized in a research project by the citrus industry in South Africa in a pilot project to automatically identify infested oranges before export. It has been proven successfully, using μCT, that infested oranges can be identified using human vision; future research is focussed to detect infested oranges without human intervention where computer algorithms and codes will be applied for automatic detection of infested oranges.

Submit a paper
for peer review
(SA Journal of Science)?
(Yes / No / Maybe)

No

Primary author: Mr NSHIMIRIMANA, Robert (NECSA)

Co-author: Mr KIRKMAN, Wayne (Citrus Research International)

Presenter: Mr NSHIMIRIMANA, Robert (NECSA)

Session Classification: Posters, Exhibition and Necsa Visit

Track Classification: Poster