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Towards Automatic Detection of Infested Oranges using Computed Tomography Imaging

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The South African Radiography and Tomography Centre (SANCRAT) hosts a Microfocus X-ray tomography system (μ CT) 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, μ CT 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 μ CT, 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

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