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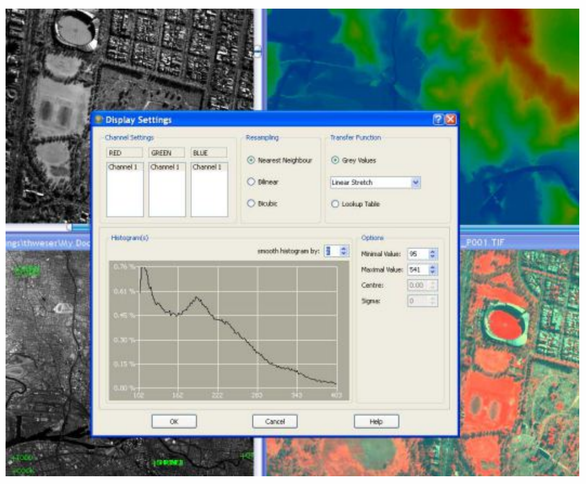
Spatially Enabling
Australia and New Zealand

P2.02 | Barista Photogrammetric Software

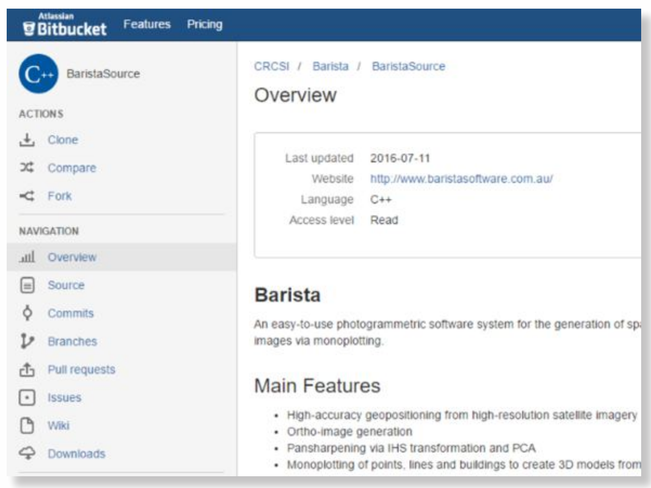
Project Contact	**Dr Nathan Quadros, CRCSI**
Research Team	**Riyas Deen, CRCSI**
Project Participants	**Now anyone can participate through the open source community**
Objectives	**Contributions! We love contributions: feel free to fix bugs, improve code, add functionality and provide documentation.**
Outcomes	• **Barista is free, open source, public domain, easy-to-use photogrammetric software for the generation of spatial information products from satellite imagery.** • **Barista supports multi- and stereo-image networks and has been specifically tailored for 3D geopositioning and feature extraction from single images via monoplotting**

Free Software

Open Source



Public Domain



Barista

Standalone software for 3D visualisation and measurement from stereo aerial and satellite imagery.

Barista's strength is that it offers easy-to-use, commonly needed spatial information extraction tools which were previously only available in high-end specialist digital photogrammetric workstations.

This makes it an ideal tool for practitioners and non-specialists seeking to extract spatial information from satellite imagery, especially from single images from the Ikonos, Quickbird, SPOT5 and ALOS satellites.

Features

- Automated registration of imagery and LiDAR
- Building footprint modelling
- LiDAR point cloud classification
- 3D visualization and measurement
- Satellite image georeferencing
- Sensor orientation and georeferencing
- Georeference long strips of satellite imagery
- Ortho-image generation
- Pansharpening
- Semi-automated feature extraction

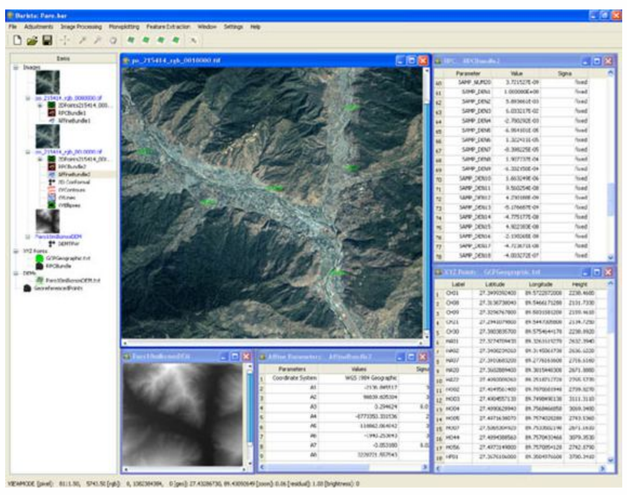
Contributing

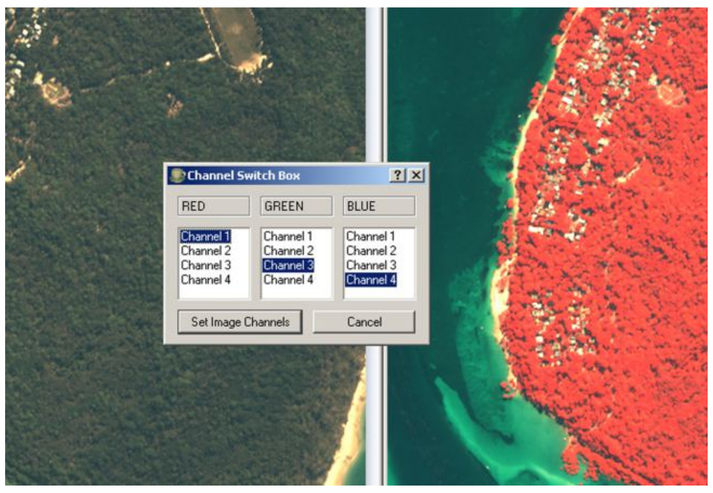
https://bitbucket.org/crcsi/baristasource

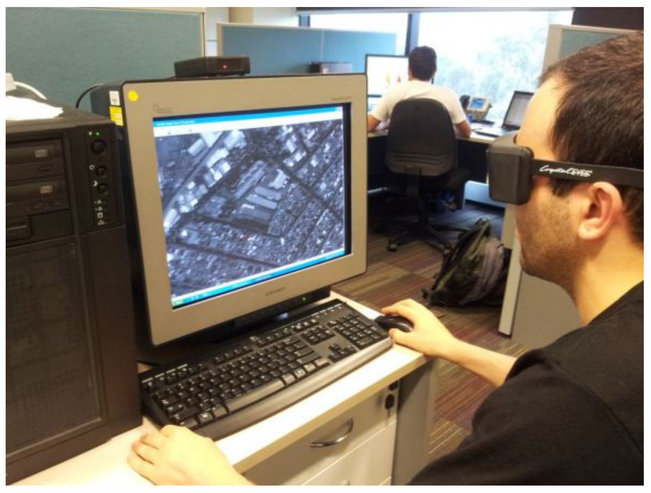
Barista is already utilised in the international commercial photogrammetric market for selected analytical functions eg monoplotting and long strip satellite image orientation.

To CONTRIBUTE you should follow these steps:

- Fork the project
- Make your feature addition or bug fix
- Send a pull request to the specific version branch







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open source initiative

www.crcsi.com.au

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