

PHOTOMOD™ Radar



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The PHOTOMOD Radar software is intended for fullscale processing of Earth remote sensing data acquired by spaceborne radars with synthesized antenna aperture (SAR) such as KOMPSAT-5, Sentinel, ERS-1/2, Radarsat, GaoFen, ENVISAT ASAR, TerraSAR-X, ALOS, COSMO-SkyMed, etc., and generation secondary information products

The fact that SAR is the active sensor makes possible reception of required measurements independently of time, day and weather conditions.

Functionality:

- Full-scale processing of Earth remote sensing data acquired by spaceborne radars (SAR);
- Flexible modular architecture: you only buy what you need;
- Wide range of supported SAR sensors;
- Ease of use: you are guided step-by-step through all stages of project processing.

Flexible modular architecture:

- Image enhancement;
- Image analysis;
- Radargrammetry;
- Interferometry;
- Marine applications ;
- Georeferencing;
- Quality evaluation;
- Object detection.



Georeferencing

Georeferencing is intended for precision mosaic building, image alignment, georeferencing, image stacking

Interferometry

InSAR/DInSAR processor has been developed as tool for interferogram modeling, detection of coherence changes, coherent coregistration

Radargrammetry

Radargrammetry realizes the technique of geocoding, RPC geocoding, stereo processor, metadata editor.

Marine applications

Marine applications is designated for ship detection, oil spill detection, sea surface characterization

Object detection

Software tools intended for extraction specific information from the radar images. It provides users with: 3D model editor, template editor, template correlator, markup block, training sample generator, training block, detection block.

Image enhancement

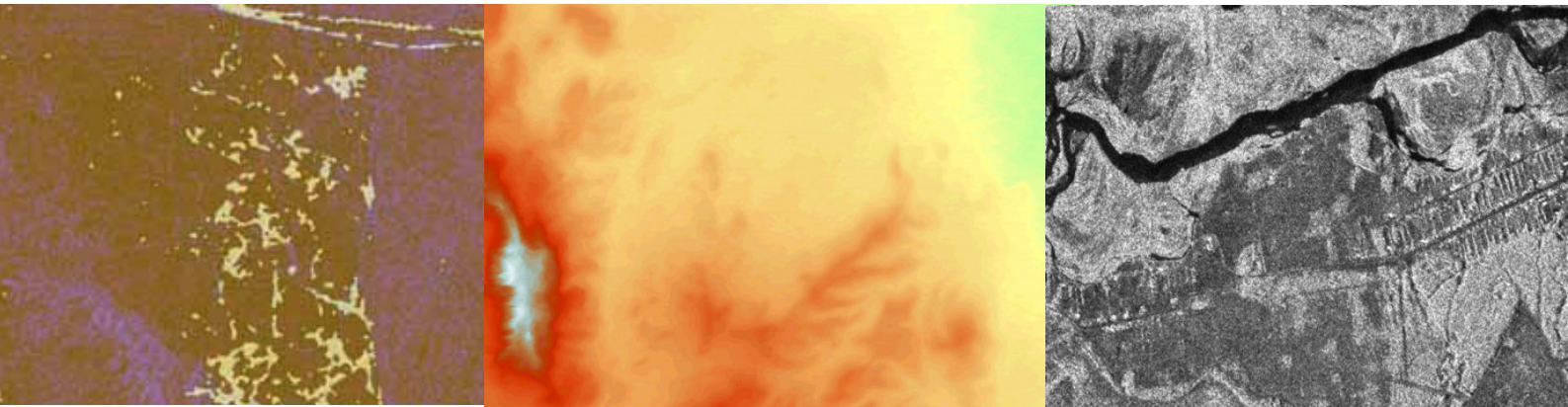
The software tool is intended to: speckle noise reduction, wavelet filtering, apodization, multi-apodization.

Image analysis

The software tool is intended to: texture analysis, classification, polarimetry, edge detection.

Quality evaluation

The software tool is designed to: impulse response analysis, geometry analysis, radiometry analysis, phase analysis, statistics analysis.





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