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A synthetic-aperture approach offers one method for obtaining high resolution optical imagery with low-mass, satellite-based optical telescopes. Images recorded sequentially with different aperture configurations are sampled and

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digitized, and appropriate spatial-frequency-domain processing is performed on a computer to obtain the desired high-resolution imagery.

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A Discussion of Digital Processing in Synthetic Aperture Radar Abstract: This is a summary paper describing the processing of synthetic aperture radar (SAR) data using digital correlation algorithms.

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Synthetic Aperture Radar (SAR) is of major interest to radar professionals because it allows them to obtain high-resolution images with unsurpassed

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The synthetic aperture approach offers an attractive method for obtaining high resolution imagery with low mass, space-

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Digital processing of synthetic aperture optical imagery ...

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Synthetic Aperture Radar Signal Processing With MATLAB Algorithms. John Wiley and Sons, 1999. [2] MIT Lincoln Laboratory. "HPCS Scalable Synthetic Compact Application #3: Sensor Processing, Knowledge Formation, and Data I/O," Version 1.03, 15 March 2007. [3] MIT Lincoln Laboratory. "High-Performance

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Synthetic Aperture Radar (SAR) Processing - MATLAB ...

Digital Technique for Generating Synthetic Aperture Radar Images. By SAR on April 7, 2019 Image Processing, Library. This paper describes a digital

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processing method applicable to a synthetic aperture radar, to be carried by the space shuttle or by satellites. The method uses an earth-fixed coordinate system in which corrective procedures are invoked to compensate for errors introduced by the satellite motion, earth curvature, and wavefront curvature.

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Digital Technique for Generating Synthetic Aperture Radar ...

A synthetic-aperture radar is an imaging radar mounted on a moving platform. Electromagnetic waves are transmitted sequentially, the echoes are collected and the system electronics digitizes and stores the data for subsequent processing. As transmission and

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reception occur at different times, they map to different positions.

Synthetic-aperture radar - Wikipedia

The digital processing of Seasat synthetic aperture radar data. An experimental digital Seasat synthetic aperture radar (SAR) processor is

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described which overcomes such defects of present systems as small dynamic range, low resolution of film recordings, optical systems light diffusion and difficulties in automatic focusing. The main problem to be overcome in the design of a spaceborne SAR data processor is range migration, in which the slant angle variations of individual

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reflectors as ...

The digital processing of Seasat synthetic aperture radar ...

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size of the entire collection.

Aperture synthesis - Wikipedia

Synthetic aperture radar signal processing with MATLAB algorithms / by: Soumekh, Mehrdad. Published: (1999) Processing of synthetic aperture radar images Published: (2008) Understanding synthetic aperture radar images by:

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Oliver, Chris., et al. Published: (2004)

Digital processing of synthetic aperture radar data ...

Synthetic aperture radar (SAR) is a tool of prime importance for Earth observation; it provides day and night capabilities in various weather conditions. State-of-the-art satellite SAR

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systems are a few meters in height and width and achieve resolutions of less than 1 m with revisit times on the order of days. ... “Digital processing of ...

Synthetic aperture lidar as a future tool for earth ...

Synthetic Aperture Radar Signal Processing with MATLAB Algorithms

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addresses these recent developments, providing a complete, up-to-date analysis of SAR and its associated digital signal processing algorithms.

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