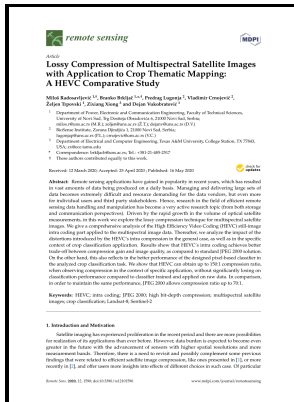


# Data compression for satellite images - final report

## NASA - Satellite Data Compression



Description: -

-Data compression for satellite images - final report

-

N77-17757

CR-149655Data compression for satellite images - final report

Notes: Originally published, West Lafayette: Purdue University School of Electrical Engineering, 1976.

This edition was published in 1977



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## Final report study of synthetic aperture radar data compression and encoding: part II: SAR image speckle suppression and data compression algorithms

All satellite functions and performance are nominal, in some cases even exceeding specifications. Image Resampling Next, XGate will resample the image. The LEON3-FT Fault Tolerant microprocessor, namely the SCOC3 Spacecraft Controller On-a- Chip , is being used as OBC.

## A predictive algorithm for multimedia data compression

To fill void in the assessment of satellite image quality after post-processing or enhancement Dr. I thank David Goodenough at the Pacific Forestry Centre; John Miller and Baixin Hu at York University for providing datasets and for actively collaborating on the data-compression user acceptability study; and Bormin Huang of the Cooperative Institute for Meteorological Satellite Studies at the University of Wisconsin-Madison for his discussion on satellite data compression.

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In case of very high agility requirements, the reactions wheels are replaced by Astrium patented CMGs Control Moment Gyros.

## What is Image Compression?

Example In lossy image compression, the original and the reconstructed image will necessarily differ. By contrast, JPEG2000 applies a perceptual criterion for all coefficients in a certain spatial frequency independently of the values of its surrounding ones. I thank Luc Gagnon, William Harvey, Bob Barrette, and Colin Black at MacDonald Dettwiler Associates former EMS Technologies for the development and fabrication of onboard compressor prototypes; and Melanie Dutkiewicz and Herbal Tsang for the development of a hyperspectral browser.

## Satellite Data Compression, Communications, and Archiving II

TRUONG, in , 2002 I. When SPOT-7 is launched in 2014, there will be 2 x 2 satellites, a true constellation with all spacecraft in the same orbital plane, coherently operated 90° one from the other on the same orbit through a single interface Ref. This provides two optional Safe mode attitude control principles: 1 Sun oriented, magnetic field spin controlled, or 2 Earth oriented.

## **See Satellite Phone Image Compression and Resampling In Action**

Operations: With SPOT-6 and SPOT-7, Astrium Satellites will for the first time operate commercial Earth observation satellites. In this paper we show two candidates for the AIRS Version 5 algorithm which will be used by the Goddard DAAC starting late in 2006.

## **Final report study of synthetic aperture radar data compression and encoding: part II: SAR image speckle suppression and data compression algorithms**

The nonlinearities and communications signal perturbations include Additive White Gaussian Noise AWGN , phase noise, phase imbalance, and a model satellite high power amplifier nonlinearity. .

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