Koreksi Geometrik pada Citra Rav Data Spacecam Satelit Lapan-A2 untuk Tujuan Interpretasi Visual

Geometric Correction on Raw Data Image of Spacecam LAPAN-A2 Satellite for Visual Interpretation

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ABSTRAK - Peda September 2016, Lembaga Penerbangan dan Antaniksa Nanional (LAPAN) meluncurkan satelit buatan ilmuwan Indonesia pertama yang diben nama satelit LAPAN-A2/ORARI. Satelit LAPAN-A2 membawa kansera Space Com untuk mim pengamatan bumi (pervellunce). Kamera Space Com hanya memiliki sensor optik-elektrik tunggal, yang dilapini dengan sebuah Color Filter Arroy (CFA) untuk memben informan warna. Raw disto citra hasil rekaman kamera Space Com periu dikoreksi agar dapat digunakan untuk interpretasi citra yang lebih akoret. Algoritma Demouncing Bayer (Debuyer) dengan pola B-O-O-R yang tambahan operator adaptive moothing citra painig optimal digunakan untuk menghasilkan citra berwana (RGB) natural color Program oper source seperti Benga I menyediakan algoritma Debuyer tersebut Sedangkan korakin geometrik menggunakan model persamaan proyektif dengan 4 parameter sudah mencukupa Program open source seperti Quentum OIS menyediakan model persamaan proyektif dengan 4 parameter sudah mencukupa Program open source seperti Quentum OIS menyediakan filtur korakin geometrik tersebut. Nilai rinse hasil proses korakis geometrik dengan memanfastian Peta Rupabumi Indonesia 1/25 000 sebagai titik kontrol tanah menghasilkan nilai dibewah 1 piksel Sedangkan rilai kesalahan pada titik cek point menghasilkan penyimpangan dibawah Sm. Overlay antara citra Space Com terkorakin dengan Peta RBI secara visual menunjukkan geometrik yang tersambung dengan bak. Secara visual citra Space Com terkorakin lebih tajam dibandingkan citra Landset S sebab memiliki resolusi sasai yang lebih baik. Dimasa mendatang operator perbaikan kualitas radiometrik citra hasik membatang operator perbaikan kualitas radiometrik citra hasik membatan peda dibandingkan dengan elapan baksimal koraksi masa mendatang operator perbaikan kualitas radiometrik citra hasik mesah menah perlu ditingkatkan dengan algoritma koraksi shuosifi agar diperoleh resolusi radiometrik yang maksimal

Kata kunci LAPAN-A2/ORARI satellite, koreksi geometrik, democascing beyer

ABSTRACT - In September 2016, National Institute of Aeronautics and Space (LAPAN) launched the first Indonesian scientist satellite named LAPAN-A2 / OBARI satellite. The LAPAN-A2 istellite carries the SpaceCam camera for Earth observation missions (surveillance). The SpaceCam camera has only a single optical-electrical sensor, which is coated with a Color Plitter Aeray (CFA) to provide color information. The raw data image from SpaceCam camera recording needs to be corrected in order to be used for more accurate image interpretation. The Demosaicing Bayer (Debayer) algorithm with the E-O-O-R pattern in addition with adaptive smoothing image operator is used to produce natural color images (ROS). Open source programs such as Image/provide the Debayer algorithm. While geometric correction using the projective equation model with 4 parameters is sufficient. Open source programs such as Quantum GIS provide such geometric correction features. The ring value from geometric correction process by utilisting the Indonesian Topographic Map 1 / 25,000 as the ground control poor yields a value below 1 pinel. While the error value at the independent check points result in deviation below 8m. The overlay between the corrected SpaceCam imagery with the RBI Map shows a well-connected geometric feature. The SpaceCam's corrected image is more sharply than Landard 8 image because it has better spatial resolution. In the fiture, the radiometric image correction operator still needs to be improved with atmospheric correction algorithm in order to obtain manimum radiometric resolution.

Keywords: LAPAN-A2/ORARI satellite, geometric correction, demosaicing bayer

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