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AN OPTIMAL IMAGING-SCHEDULING ALGORITHM FOR THE MULTI-STRIP IMAGING-MODE OF THE HIGH-RESOLUTION AGILE SATELLITES BASED ON CERTAIN STEP-SIZE SEARCH

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Keywords: high resolution, agile satellite, multi-strip imaging-mode, imaging-schedule

Abstract. The high flexibility of the agile satellite can significantly improve its ability to obtain data. Compared with ordinary satellite platforms, the imaging-scheduling is more important, and is the basis to ensure the efficiency and quality of data for the agile satellite. To be aimed at the multi-strip imaging-mode of the agile satellite, from the perspective of the image-quality, a imagingscheduling algorithm based on certain step-size search in the multi-strip imaging-mode of the agile satellite is proposed, and the influence of the selection of the imaging time-window on the multi-strip image quality is analyzed quantitatively through the experimental data. The results show that the optimal image data can be obtained through the image-scheduling algorithm.

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