Coastal Change Detection Using Distributed Computing

A. Phan[1], **M. D. Chuc**[1], **B. Q. Hung**[1], **and N. T. N. Thanh**[1]

Abstract: Nowadays, distributed computing takes an important role in big spatial data processing and massive remote sensing images processing. It aims to improve the performance. In this paper, we presented a research on distributed computing for a coastal change detection algorithm. We first introduced a change detection algorithm for coastal environment. Then, the algorithm is implemented on both traditional single-computer environment and distributed computing environment. Finally, we compared computing performance of the two experiments. The results showed that distributed computing environment significantly improved algorithm performance

---

[1] Center of Multidisciplinary Integrated Technologies for Field Monitoring
University of Engineering and Technology
Vietnam National University
144 Xuan Thuy Road, 10307 Hanoi, Vietnam
{*anhp, chucmd, hungbq, thanhntn*}*@fimo.edu.vn*