Next Frontier of Malaysian Space Technology Development Based on Bibliometric Analysis and Patent Analysis

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Abstract

Malaysia's space industry has gotten off to a solid start and the government has worked hard to nurture the space industry. Malaysian Government attempted to gain competitive advantage in remote sensing technology against other ASEAN countries. However, there has been no extensive research which investigating the current landscape regarding remote sensing technology among ASEAN countries. Therefore, we conducted both bibliometric analysis and patent analysis to identify differences among the technology development. As a result, we will determine Malaysia's potential uniqueness or strength in terms of remote sensing technology. Thus, remote sensing technology in Malaysia was chosen as the case study for this research. This research will inspire the private companies, start-ups and Malaysian researchers to find promising technology development by focusing on remote sensing, specifically in image and satellite areas, to assist and address the environmental issues such as flood, landslides and deforestation.

Keywords— Space Technology Development, Database, Patent Analysis, Bibliometric Analysis, Space Industry