

Application of fuzzy clustering in satellite cloud image forecasting

Tran Thu Phuong

Abstract: This topic focuses on applying the fuzzy clustering algorithm to enhance the accuracy of cloud image forecasting from satellite data. The research context is set by the importance of weather forecasting based on modern satellite data, which helps reduce risks and increase efficiency in disaster management. The objective of the topic is to build an effective cloud forecasting system using the fuzzy clustering method. Through a combination of theoretical research and experimentation, the topic is expected to provide a new solution with high applicability in the fields of meteorology and environmental management.

Keywords: fuzzy clustering, satellite cloud image forecasting, weather, disaster management