عنوان مقاله:

Sulfur dioxide (SO۲) modeling in Tehran using satellite images and classification algorithms

محل انتشار:

پنجمین همایش ملی و دومین همایش بین المللی کاربرد مدلهای پیشرفته تحلیل فضائی سنجش از دور و GIS در آمایش سرزمین (سال: 1401)

تعداد صفحات اصل مقاله: 10

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خلاصه مقاله:

Protecting the environment is one of the concerns of mankind today. Accordingly, various scientific and executive groups such as environmentalists, geologists, municipalities making efforts to preserve and maintain the environment. Environment includes all aspects of life of living beings, especially humans. Industrial development and technological progress have brought various achievements to human life. Unfortunately, industrial development wastes are released into the environment, which have negative effects on the environment. Air pollution is also one of the results of industrial development, which has increased with the growth of urbanization. Sulfur dioxide (SO۲) is one of the most common urban pollutants especially in big cities. In this research, different spatial models for SO۲ modeling are presented and analyzed. Finally, the best model is identified and selected. The research results showed that the Scaled Conjugate Gradient algorithm with RMSE value of ۴.۳۹۱۷۳ is the best algorithm for modeling this pollutant in Tehran city.

کلمات کلیدی:

modeling, pollutant, SO۲, GIS, Remote Sensing

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