

## عنوان مقاله:

Predicting the values of radon gas and evaluation of different interpolation methods to find the best distribution of (radon gas)(Case study: Tehran metropolis

## محل انتشار:

اولین کنگره بین المللی زمین، فضا و انرژی پاک (سال: 1394)

تعداد صفحات اصل مقاله: 11

## نویسندگان:

Abdollah Taleshi - *P.H.D student, Tabriz University, Climatology group*

Roghayeh Zare Hasari - *Vice headmaster of Khayyam high school*

Shahla Eivazi - *Leader of Social Studies group, East Azerbaijan province*

Sina Mousavi Aghdam - *Neinava Civil Organization*

## خلاصه مقاله:

Inhalation of radon gas is the second most important cause of lung cancer after smoking and about 5 to 15 percent of all lung cancers are caused by this way. Because of that it is necessary to study the distribution of radon gas in different parts of Tehran and take the necessary steps to reduce its negative effects. Arc GIS software is an application that can be used effectively for this purpose, various interpolation methods such as Kriging method, Areal interpolation, Inverse distance weighting and many other interpolation methods can be used to calculate the distribution of radon gas but it's not easy to choose a suitable method. In this study we try to select the most appropriate interpolation method, for this purpose, a number of randomly selected data will be compared with the results obtained and subsequently interpolation method which obtain the lowest error will be selected as the best method. Finally, the areas with values more than allowable limits will be specified and thereby provides a guideline .that can be used as a comprehensive plan for management and therapy project

## کلمات کلیدی:

Radon gas, Comparison of interpolation methods, Tehran, Management and therapy, Arc GIS

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/456540>

