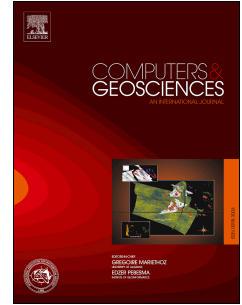


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Computation of continuum percolation threshold for pore systems composed of vugs and fractures

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1 **Computation of continuum percolation threshold for pore**
2 **systems composed of vugs and fractures**

3

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7

8 **Abstract**

9 In this research, we study the connectivity of a network composed of pores with different
10 shapes including combinations of vugs and fractures. For this purpose, we have
11 developed a numerical simulation technique to determine the dependence of continuum

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Author contribution statement

Evgeny Pervago: Author makes substantial contributions in the development of ideas and their implementation by the development of the algorithm and program codes, the realization of the numerical modeling, and preparation of the article text and graphics.

Aleksandr Mousatov: Author makes substantial contributions to the development of ideas, analysis, and interpretation of the obtained results, and fulfilled a critical revisiting of the manuscript.

Elena Kazatchenko: Author makes substantial contributions in analysis, discussion, and interpretation of the results obtained, preparation and revising of the article text.

Mikhail Markov: Author makes substantial contributions in the analysis and discussion of the obtained results and fulfilled critical revisiting of the manuscript.

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