


Retraction: Phase transitions, percolation, fracture of materials, and deep learning
[Phys. Rev. E **102, 011001(R) (2020)]**

Serveh Kamrava, Pejman Tahmasebi, Muhammad Sahimi, and Sepehr Arbabi

 (Received 20 September 2021; published 5 October 2021)

DOI: [10.1103/PhysRevE.104.049901](https://doi.org/10.1103/PhysRevE.104.049901)

We retract the paper because to compute part of the results additional information had been used, which, due to an oversight, was not mentioned in the paper. The computational algorithm contained an inner loop that imposed a constraint on the predictions of the algorithm at each step so as to prevent the trends in the predictions from deviating significantly from the predictions in the prior steps. Although the constraint was theoretically rigorous, part of the predictions would not have been accurate without the constraint, and we had failed to describe the loop and its working. In the near future we plan to submit a revised manuscript with complete details of the computations.

We thank several colleagues, and, in particular, K. Murphy of the University of Pennsylvania for bringing the incomplete information and description in the paper to our attention.