Review of: "An approach to the background, methods and challenges of research in disasters"

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Potential competing interests: No potential competing interests to declare.

- According to the authors: "Disasters are phenomena of global distribution and increasing impact ….. that often require the use of quantitative and qualitative methods to be investigated."

But, disasters are unusual phenomena that have high uncertainty about their occurrence and gravity. So, classical statistical (quantitative and qualitative) methods cannot explain them well. For that, in recent works more sophisticated techniques as neural networks are used (e.g. Jemli et al. (2010): https://doi.org/10.2298/PAN1001043J)

In addition, several theories and previous works have already explained the irrational human behaviors and the irrelevance of decision-making in uncertainty and disasters. In fact, individual's behaviors are impacted by several cognitive biases to deal with disastrous and catastrophic risks (e.g. Jemli and Chtourou (2022): https://doi.org/10.1007/s13132-022-01027-5)

- I find that the Abstract is longer than normal however the Introduction is shorter and so general. For example, the authors don't set the paper's issue (question of research). In addition, they don't announce the plan of the paper at the end of introduction neither the contribution of their paper compared to current understanding of the subject.
- The methodology "epidemiological methods in disaster" is not enough presented.
- The discussion is not well developed and very poor.