

Interactive comment on “Hydrodynamics of pedestrians’ instability in floodwaters” by Chiara Arrighi et al.

Anonymous Referee #1

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This is a nice paper describing a new hydrodynamic model simulating pedestrians’ instability during flooding events. The manuscript includes nice figures and is overall well written, but a double check from a English native speaker would help improve readability. Yet, I have 2 main major concerns that should be address before publication.

The first one is related to the actual usefulness of such a model in risk management. The authors state this point in various parts of the paper, but they do not clarify how such a model can actually be used. I think this clarification is crucial, as its usefulness is one of the selling points of such a model.

The second one is related to the lack of a sensitivity analysis. The current modelling exercise does not allow a proper evaluation of the fact that good results are obtained for the right reasons. The paper describes it only with reference to mesh resolution, but

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there are numerous parameters affecting model outcomes and, by playing with them, one can get a plethora of different results. Thus, to evaluate the proposed model a comprehensive sensitivity analysis is crucial.

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