Report on submitted paper in "**A comparative study of explicit and stable numerical methods for heat conduction in an insulated wall**", in building MDPI. The author compute heat transfer in building components is an important and nontrivial task. Thus, in this work, we extensively examined 13 numerical methods, eight of which are recently invented explicit algorithms which are unconditionally stable to calculate the linear heat conduction equation in building walls. First, we performed verification tests in a 2D case by comparing them to analytical solutions, using equidistant and non-equidistant grids. Then we tested them on the real-life application in the case of one-layer (brick) and two layers (brick + insulator) walls to find how the errors depend on the real properties of materials, the mesh type, and the time step size. We applied space-dependent boundary conditions on the brick side and time-dependent boundary conditions on the insulation side. The results show that the best algorithm is usually the original odd- even hopscotch method for uniform cases and the leapfrog-hopscotch algorithm for non-uniform cases. This paper is scientifically correct and well presented. Therefore, I recommend it be accepted for publication after the authors resolve the following revisions:

1. Rephrase the sentence in abstract line 10 i.e. we extensively examined 13 numerical method… in building wall.
2. Rewrite all the double citation in the format e.g. [5,6] instead of [5],[6].
3. Correct N in line 130.
4. Rewrite the number 0.0234.0.98^99 in line 145
5. Define C in Eq (15)
6. Write a proper methodology for at least one method i.e. how the Eq of DF algorithm in line 261 are obtained, or Eq (12) and (13).
7. To show the better understanding of the effects observed in the Figures and Tables, the authors can explain some additional notes about these.

8. The author should improve the introduction section by adding the following recent work in the literature.
    - https://doi.org/10.1007/s00366-021-01327-5
    - https://doi.org/10.1007/s00366-019-00760-x
    - 10.1002/adts.202100600

9- Generally, English and presentations are acceptable, but some English and statements should be clarified and improved for publications.