Response to the Reviewers' Comments (**Reviewer 1**)

Manuscript Title: Smart Homes and Families to Enable Sustainable Societies: A Data-Driven Approach for Multi-Perspective Parameter Discovery using BERT Modelling

Manuscript ID: *sustainability-1882191*

We are very thankful to the reviewer to give us the opportunity to revise our manuscript and for the time and effort in providing very insightful comments and suggestions. These have greatly helped us to improve the quality and presentation of our paper. We have revised the manuscript based on the comments of the reviewers and our response to the specific reviewer's comments is provided below.

All the modifications in the revised manuscript can be viewed using the "Track Changes" option available in MS Word. Our response to the reviewer's comments is provided in the following manner.

> Text written in black colour represents the reviewer's comments.

>>> Text written in blue color represents our response to the reviewer's comments.

We hope that the revised manuscript will meet the reviewer's satisfaction.

>>> Specific Comments and Responses

- We are faced with a highly relevant piece of research, given the importance of the smart home topic. The application of in-depth learning is a coherent strategy and outlines a contribution to the field of application.

>>> Thank you very much for your positive comments and encouraging remarks. We appreciate it.

- It defines a series of objectives that, although coherent with the study area, are addressed and developed excessively for a research paper (which typically ranges from 15 to 20 pages) In this sense, it lacks synthesis.

- From the methodological point of view. It would be a good idea to include a layout identifying the stages addressed in this process. This roadmap could help guide the reader and facilitate knowing which section of this long article they are in.

>>> Thank you, we have now revised the manuscript. Some restructuring has been done, some explanations have been added to clarify the overall structure of the research and methodology, and a new figure is added that provides structure of the document to help navigate the article. The figure is copied below for your convenience.

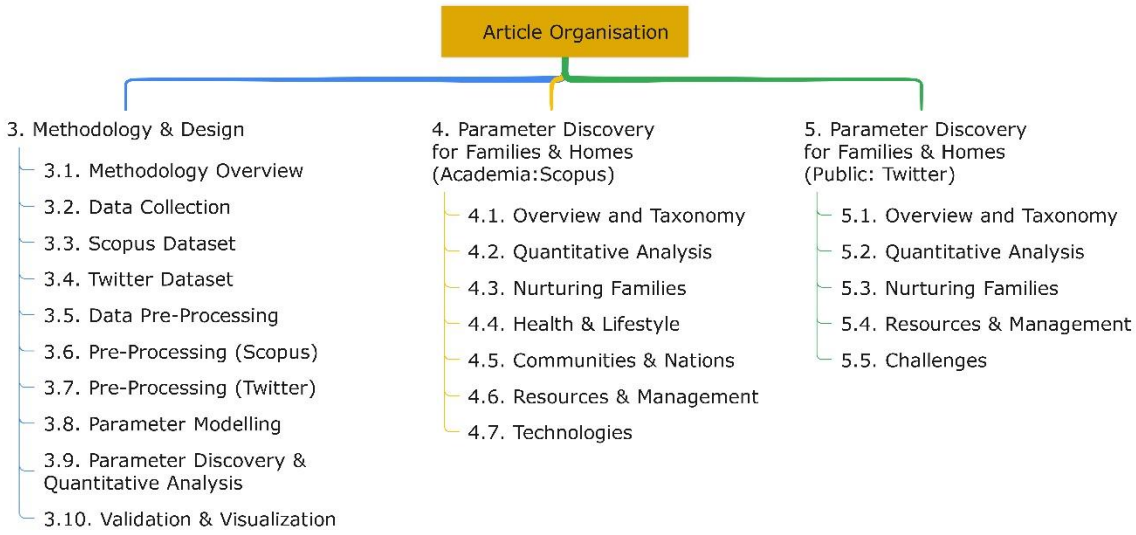


Figure 2 Article Organisation

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