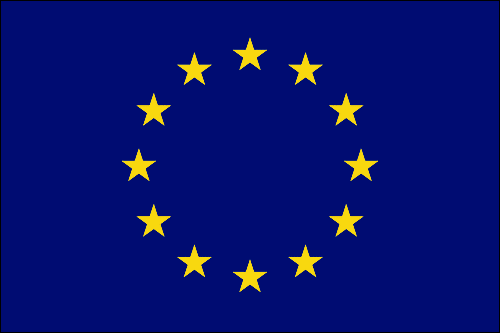


13/10/2020

GUIDELINES ON USING THE PARIS REINFORCE DATASET OF “[https://doi.org/10.2991/ijcis.d.200924.002]”



**\*CITATION AND LICENCE INFORMATION\***

The dataset **Labella\_et\_al\_2020\_IJCIS\_DATASET** has been created in the repository ‘Zenodo’ in **2020** by the EC H2020 funded PARIS REINFORCE project (grant agreement no 820846).

This dataset contains the underlying data for the following publication: **Labella, Á., Koasidis, K., Nikas, A., Arsenopoulos, A., & Doukas, H. (2020). APOLLO: A Fuzzy Multi-criteria Group Decision-Making Tool in Support of Climate Policy. *International Journal of Computational Intelligence Systems*, *13*(1), 1539-1553, https://doi.org/10.2991/ijcis.d.200924.002.** Full details of methods used to create the dataset and provided within this publication.

The dataset was created by **National Technical University of Athens (NTUA)** and involved the following **researchers:**

**Mr. Konstantinos Koasidis, Researcher, NTUA**

**Dr. Alexandros Nikas, Project Manager, NTUA**

**Mr. Apostolos Arsenopoulos, Researcher, NTUA**

**Prof. Haris Doukas, Project Coordinator, NTUA**

This dataset **does not contain** third party inputs.

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**\*CONTENTS\***

This data set contains:

* The evaluation of the 25 alternatives/risks over the 4 criteria from experts in the iron and steel sector of Austria.
* The preferred criteria weights for each expert.
* The individual evaluation of each expert for each alternative after the first round of multi-criteria analysis.
* The final evaluation and ranking of the examined risks that experts are more concerned in the sustainable transition of the Austrian iron and steel sector.
* The consensus level of each expert based on their individual and the collective solution.

**\*WORKFLOW\***

* The risks evaluations and the criteria weights are provided by the experts in linguistic terms. In this dataset the input is presented in their equivalent numerical form (detailed methodology for the transformation is provided within this publication), which is the form used to process data in the following steps.
* The analysis is performed using “A grouP decisiOn fuzzy tooL in support of cLimate change pOlicy making” (APOLLO), a fuzzy decision support system, which is currently under development. An analytical description of the methodology the tool follows is provided within this publication and it is based on the 2-tuple TOPSIS method that is performed on two levels; first, for the calculation of the solution for each expert individually; and second, for the calculation of the collective solution and the final ranking.
* After the calculation of the individual and the collective solutions the consensus level is measured following the methodology provided within the publication.