

## ***Interactive comment on “MLAir (v1.0) – a tool to enable fast and flexible machine learning on air data time series” by Lukas H. Leufen et al.***

**Anonymous Referee #2**

Received and published: 11 December 2020

### **1 OVERVIEW**

Through this manuscript, a new library specialized in Neural Networks for air quality forecasting is presented. In general terms, it is well written, the objectives are clear, and main features are correctly established.

Given that Neural Networks are gaining importance and widening their public, it is of high interest developing new tools that facilitate the intersection between this concrete field and any other area. In that sense, this work is an example of transparency and reproducibility, especially important in the Artificial Intelligence domain.

C1

### **2 COMMENTS**

1. The title is at some degree confusing. Using the term "Machine Learning" might lead to confusion, as the framework is solely based on deep learning.
2. It feels like section 2 and 3 could be exchanged: before explaining how the framework is used, it might be interesting to know how the framework works. Also, the description of the framework is quite scarce and for a non-computer scientist reader it could be hard to follow.
3. Given that the manuscript aims to improve synergies between air quality experts/practitioners and deep learning methodologies, some kind of introduction to deep learning main points is recommendable.
4. Some terms are not described before being used. Again, as in Section 2 the functioning and experimentation procedure is presented without any previous explanation of the general framework, sometimes it is confusing.
5. Grammar and typo errors should be carefully checked throughout the entire manuscript.

---

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2020-332>, 2020.

C2