

## Advanced ML course 2022 – proposal feedback

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Paper: AttnSense: Multi-level Attention Mechanism For Multimodal Human Activity Recognition

Thank you for the proposal you submitted. We have reviewed it. Here is our short feedback:

Topic	Comments/Feedback
Paper summary	From the summary of the paper, it seems that you have understood the subject well. It is important for me to emphasize that the paper belongs to the group of articles in the field of HAR where number of sensors are used, and the main challenge is in combining the information that comes from different sources.
Innovative part	Sounds good to me. I'm not sure axis rotations is the way to do data augmentation for this kind of data but sounds logical. I recommend you explore additional options for time series data augmentation. Your second part which involves a change of architecture- I'm not sure I understood where you're going to integrate the multihead attention but anyway sounds like a good direction.
Data source and evaluation	Good choice to focus on the PAMAP2 dataset. Your evaluation method sounds good.
Timeline	In my opinion, at the stage of reconstruction the results, there are two steps that should be separated: 1. Preprocess. 2. Building the network. Each of the stages involves a lot of work. Generally, the schedule you suggested is good.
Other	You are right that implementations of the paper do not exist as far as I know. Keep in mind that the preprocess is relatively long. You can consult with me by email or in zoom meetings. My email is: galblecher1111@gmail.com

Enjoy the research!