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EURO

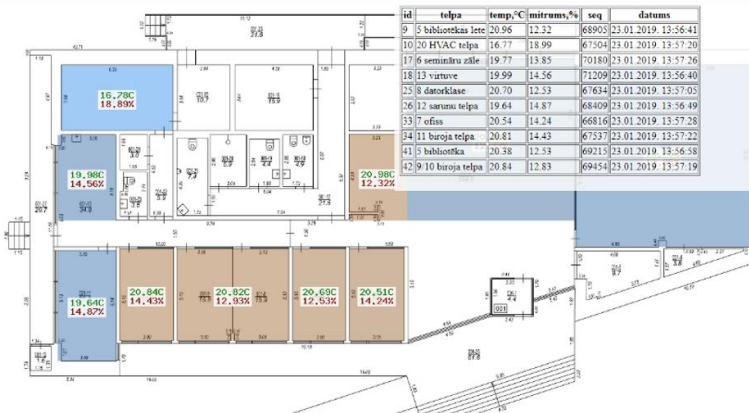
HPC for research
and development
Riga, Latvia



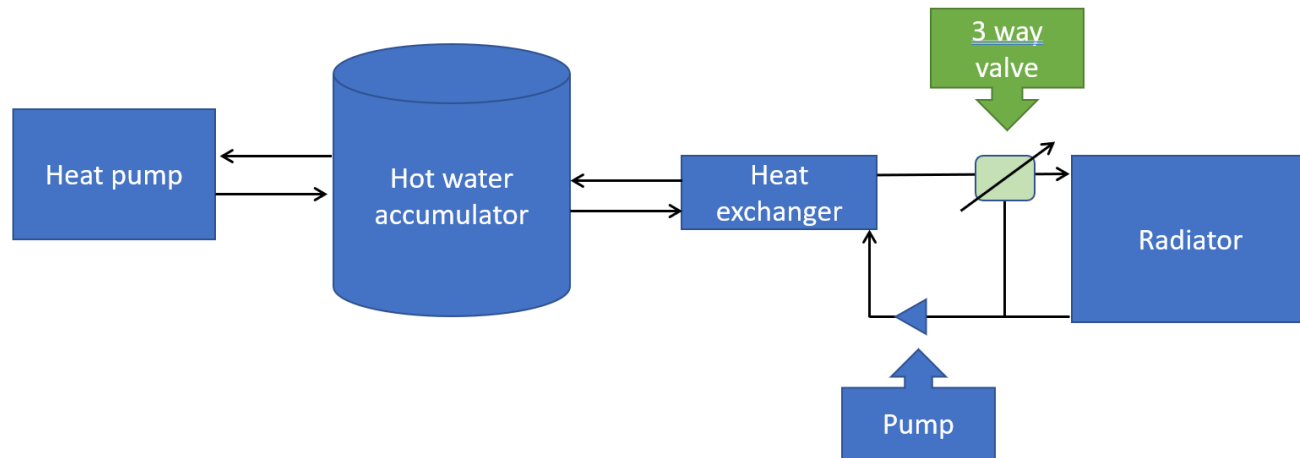
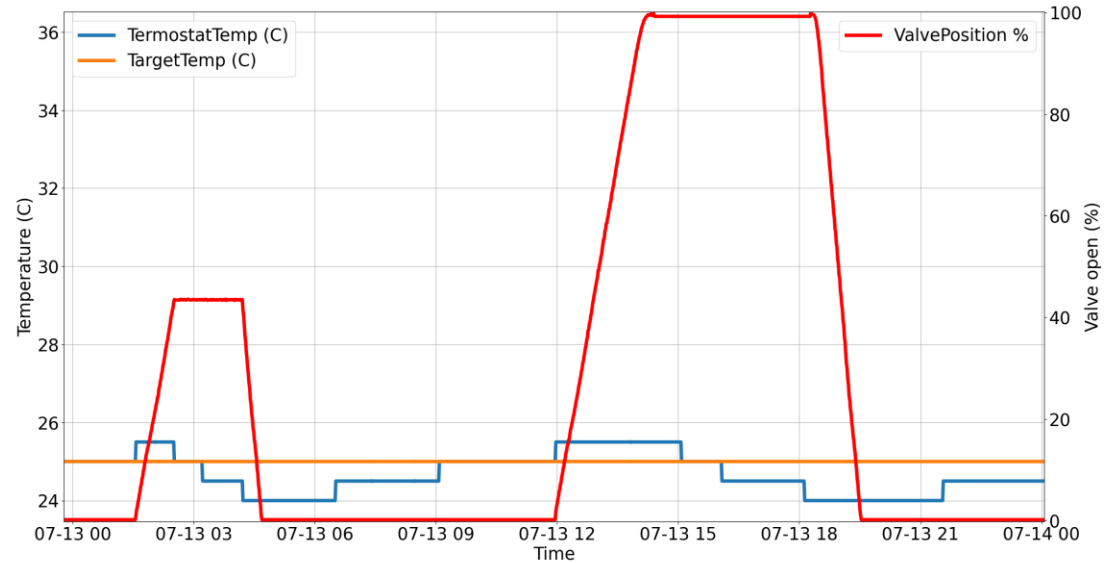
AI Demo Case: Building Management System AI Model.

Jevgēnijs Teličko

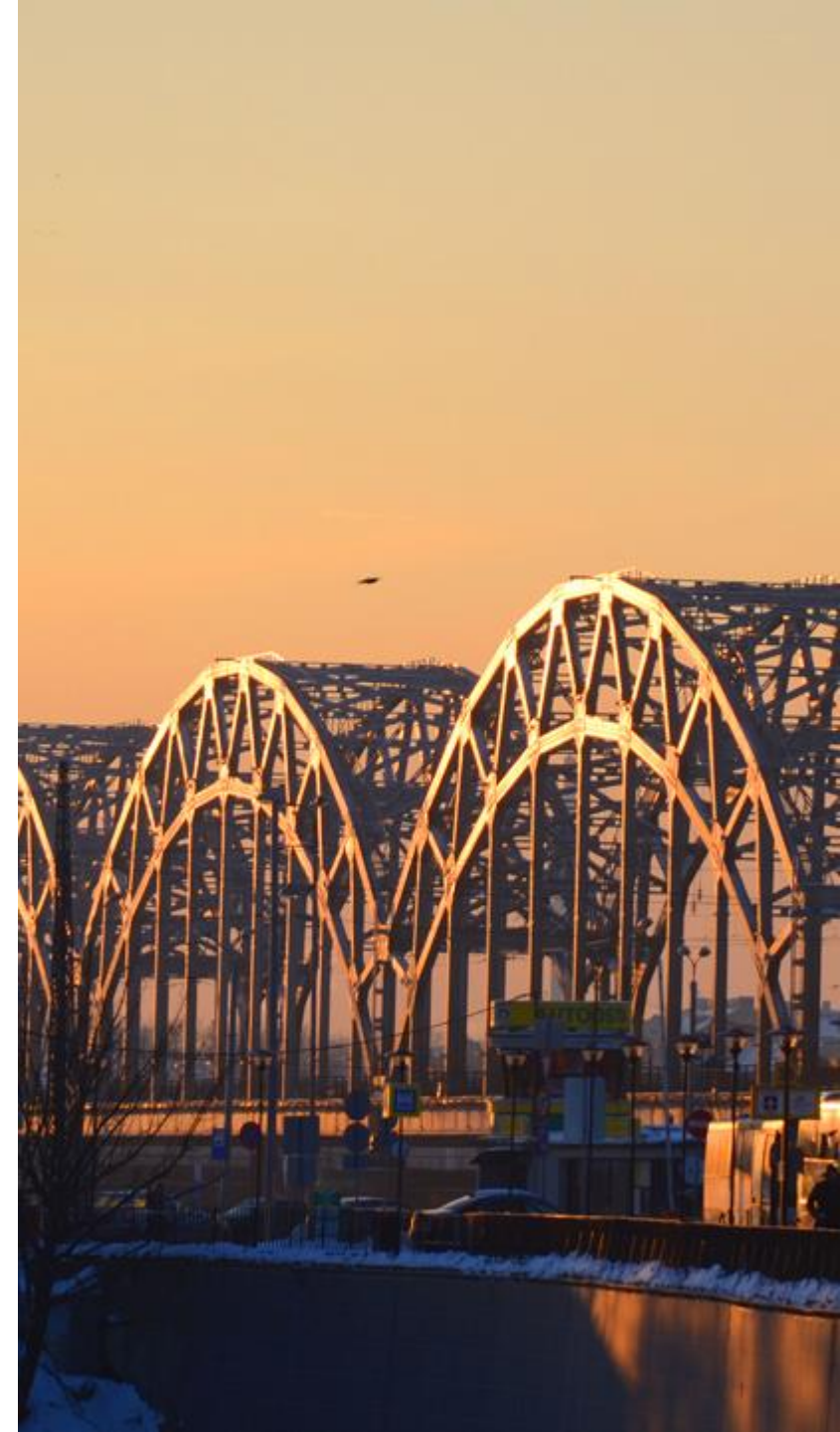
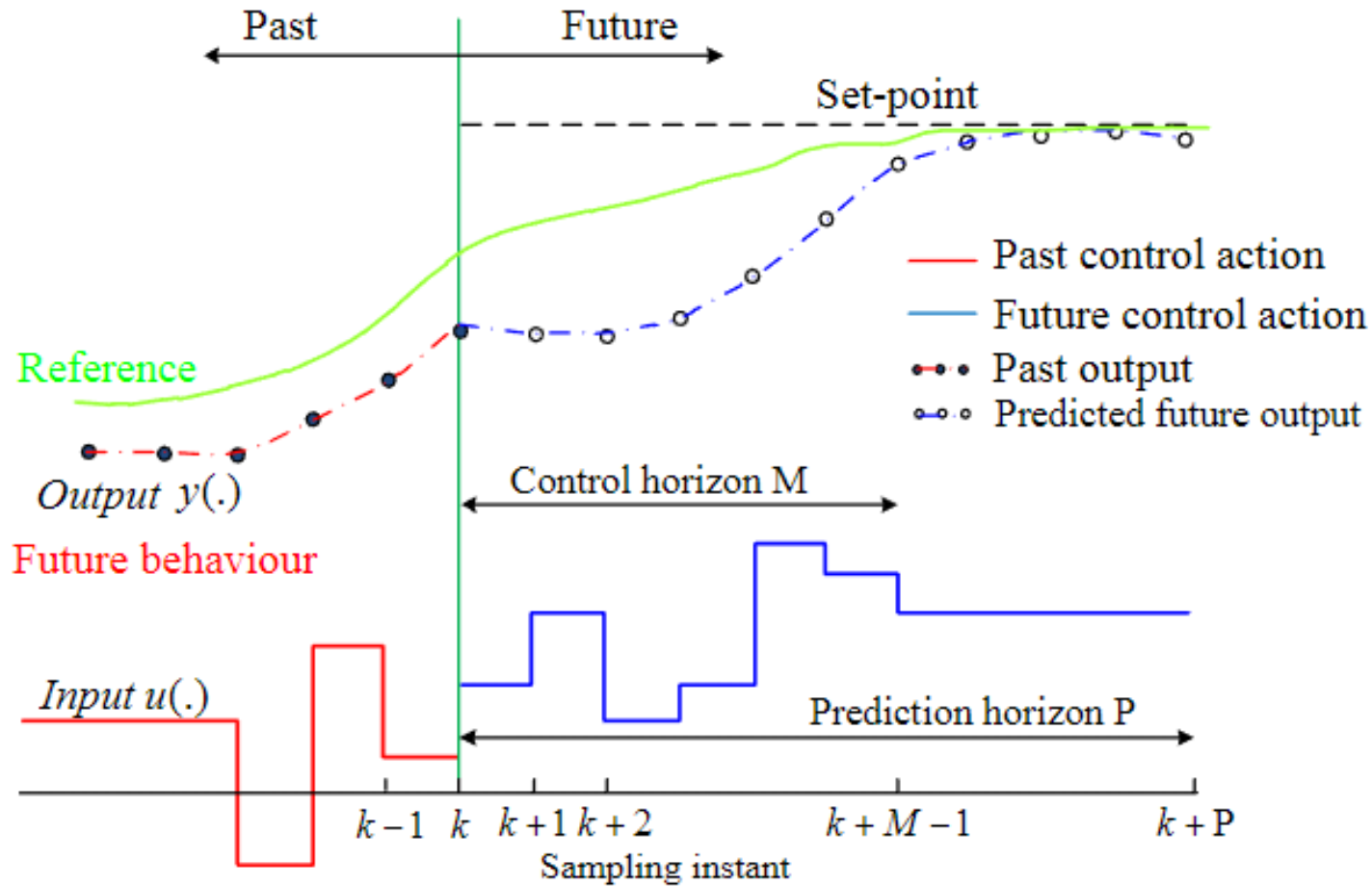
Building energy and inner comfort optimization



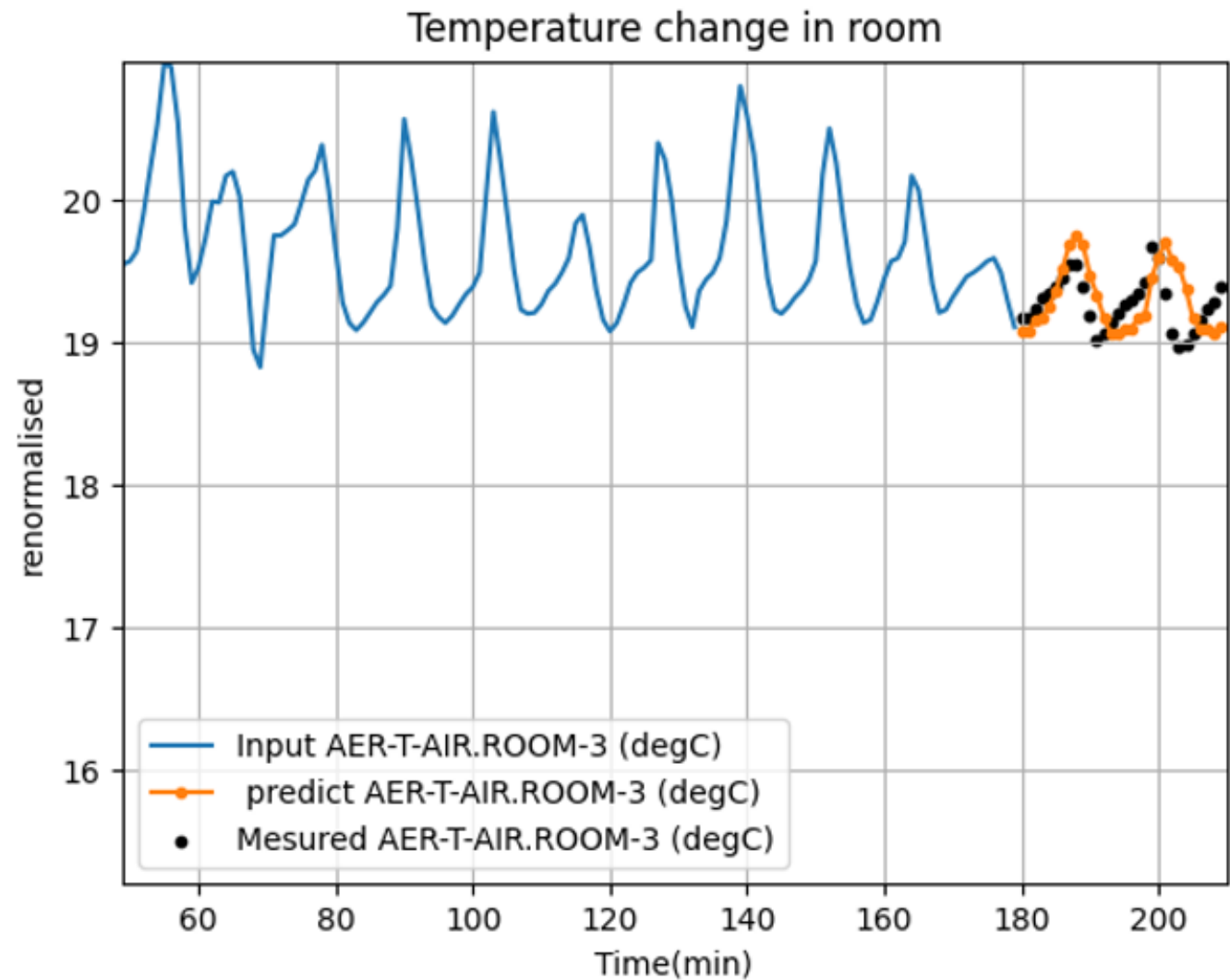
Simple heating system example and classical control



What could be used for better building performance



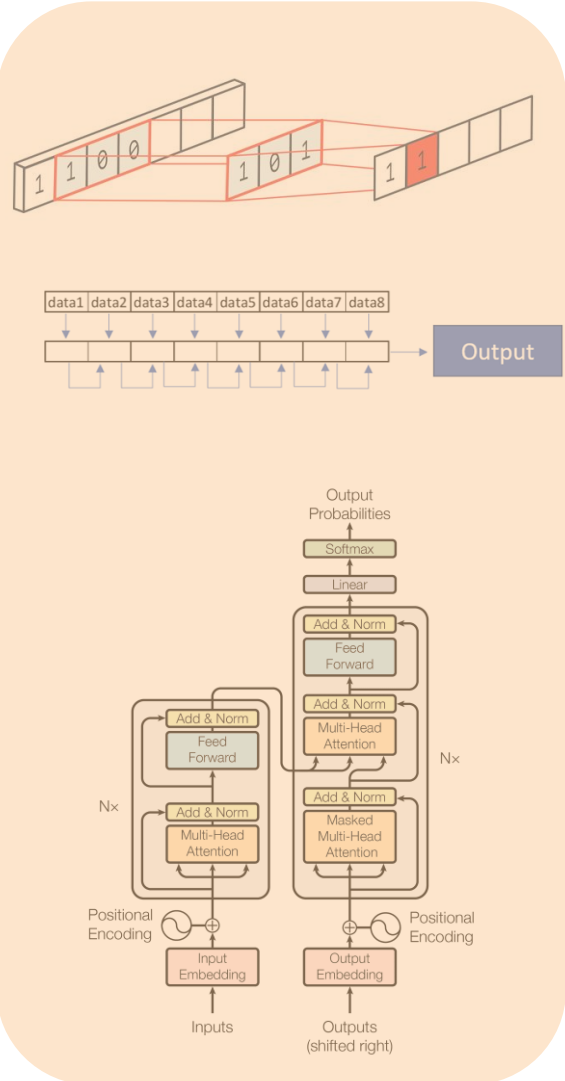
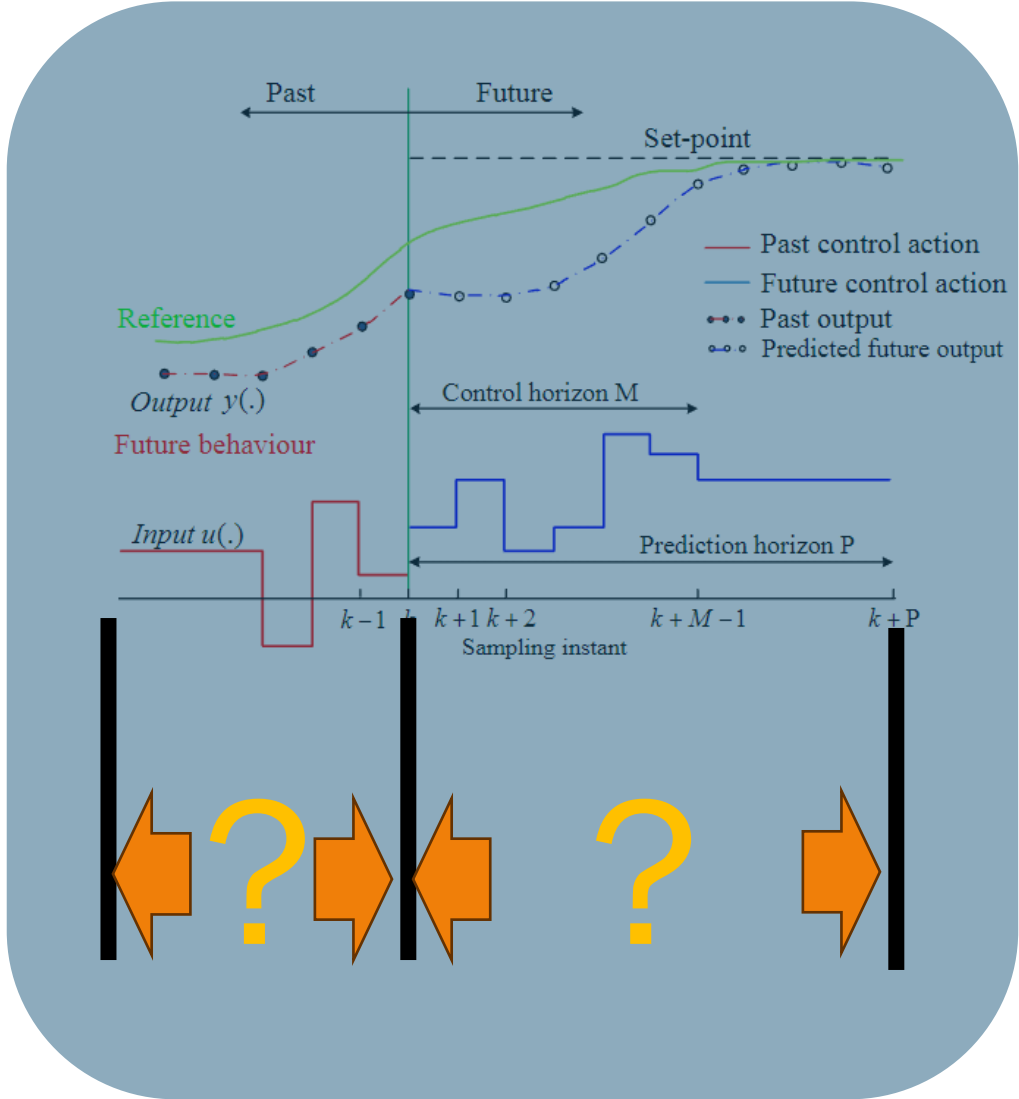
Goal of model in demo case



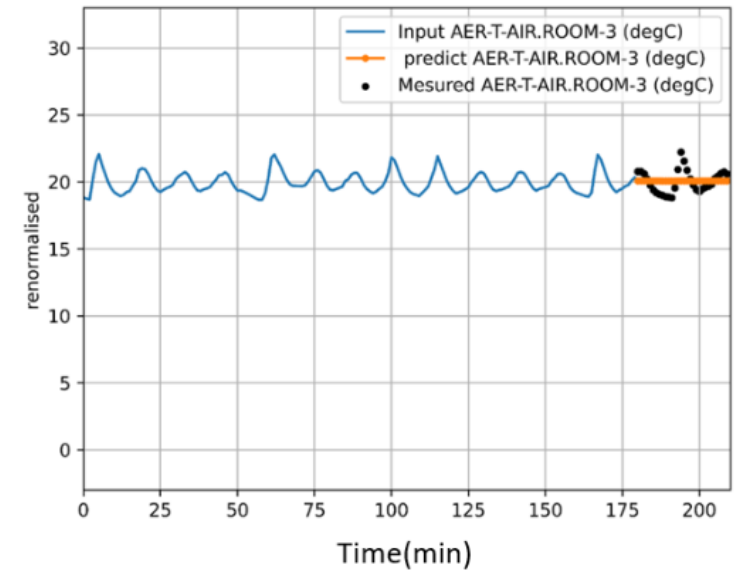
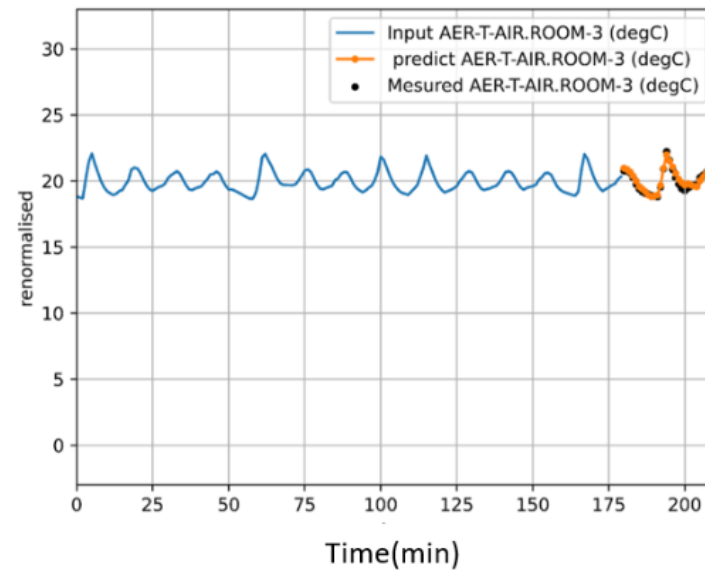
How to achieve high accuracy forecast with neural network

IN/OUT input length ?

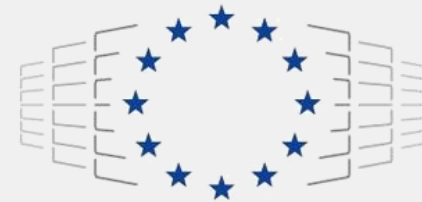
NN architecture type ?



Impact of AI model settings



Thanks!



EuroHPC
Joint Undertaking

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Link for demo case:

<https://gitlab.com/eurocc-latvia/bms-ai-model>

References

Yang, Xiaoliang & Liu, Guorong & Li, Anping & Van Dai, Le. (2017). A Predictive Power Control Strategy for DFIGs Based on a Wind Energy Converter System. *Energies*. 10. 1098. [10.3390/en10081098](https://doi.org/10.3390/en10081098).