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Annex 1: Description of the Software

« **Modular Light Transformer** »

→   Under version 1 of the software dated March 8, 2024 developed in Python language, registered in France the date in the agency for the protection of programs under the number IDDN.FR.001.100024.000.S.P.2024. 000.10000 and including improvements made.

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Description:

The proposed software contains Python code using the PyTorch library in particular, with the aim of training Deep Learning models to solve handwriting recognition tasks. The proposed code includes: neural network architectures based on the Transformer model; trained models for direct use; and associated code for learning and/or predicting data.

Improvements made include code clean-up and English-language documentation.

Functionalities:

-   Neural network architectures (models) based on the Transformer model for recognizing lines of handwritten text. This includes, in particular, a first architecture that is fast and efficient, or a second, more complex architecture offering better recognition rates. This second architecture can be modulated to adapt to the different quantities of data available for training, and in particular in cases where little annotated data is available.
-   Code to train these architectures on annotated text line data.
-   Trained models that can be used directly to recognize images of lines of handwritten text.

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