

Data Collection for the study entitled ‘Edge Computing enabled Deep Learning for Smart Mobile DNA Malaria Diagnostics’

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This collection comprises two data sets:

- Temperature measurements: ‘Figure 3 data.csv’ provides the temperatures (in degree Celsius) measured each seconds for 4 different settings using the built heater. The first row contains column headers (time – in seconds) and the 4 sets of settings – temperature to reach in degrees Celsius). The data is tabulated from row 2.
- ‘AI performance.xlsx’ contains two sheets, one for each model used.
 - o The first sheet uses the object detection model. The first column contains the class. For each class the second column contains the image handle, associated with confidence in the classification (between 0-1) in the next column. The final column contains the outcome of the classification (true positive, tp; false positive, fp; true negative, tn; false negative, fn).
 - o The second sheet contains the results for the CNN model. The first column contains the class of the image, the second one is the predicted class by the model and the final column shows the confidence level (between 0-100) associated with the prediction.

This data can be viewed together with the programmes built, available on github, with the associated data available on Zenodo (DOI: 10.5281/zenodo.4429294)