

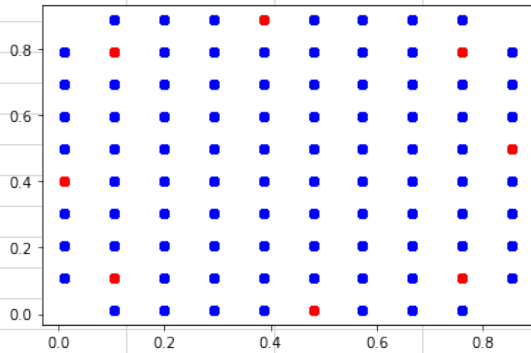
Pulse localization based on CNN analytics.

Threshold

0.15

(For accuracy, the localizations inside (Euclidean) distance loss of 0.15 m are considered correct prediction.)

Sampling layout



Coverage 8.33%

MSE

Ave error (m)

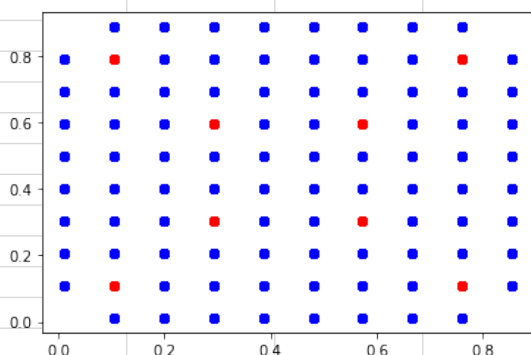
Max error (m)

Accuracy

Float32	2.34E-02	1.35E-01	8.23E-01	63.10%
Int8	2.35E-02	1.35E-01	8.24E-01	63.16%
Float6 (E4M1)				
Int8 (regularization)				

Note: Red sample points are considered for training.

Sampling layout



Coverage 8.33%

MSE

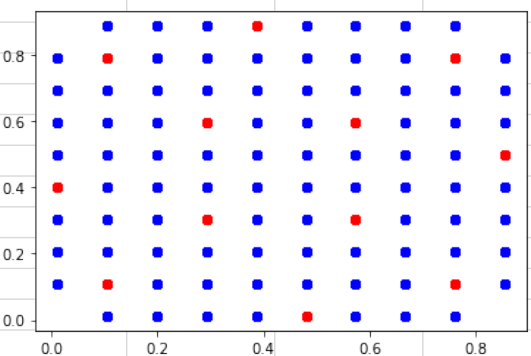
Ave error (m)

Max error (m)

Accuracy

Float32	2.16E-02	1.27E-01	7.38E-01	67.65%
Int8	2.17E-02	1.27E-01	7.51E-01	67.45%
Float6 (E4M1)	2.18E-02	1.25E-01	7.34E-01	70.50%
Int8 (regularization)	2.19E-02	1.25E-01	7.35E-01	70.59%

Sampling layout



Coverage 12.50%

MSE

Ave error (m)

Max error (m)

Accuracy

Float32	1.23E-02	9.50E-02	5.60E-01	85.21%
Int8	1.23E-02	9.51E-02	5.61E-01	85.18%
Float6 (E4M1)	1.09E-02	8.98E-02	4.91E-01	88.10%
Int8 (regularization)	1.08E-02	8.93E-02	4.73E-01	88.23%