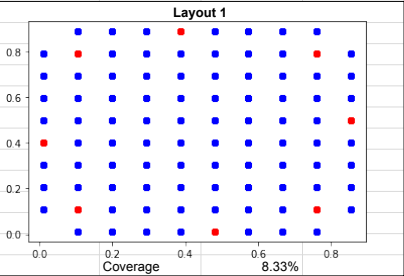
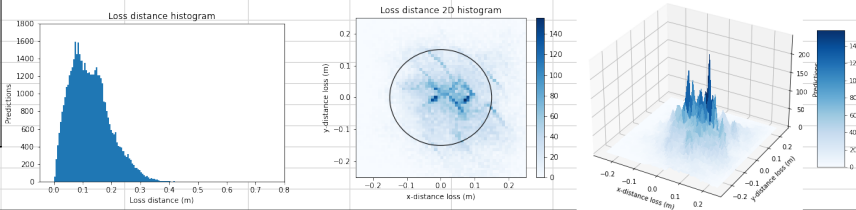


Pulse localization based on CNN regression.

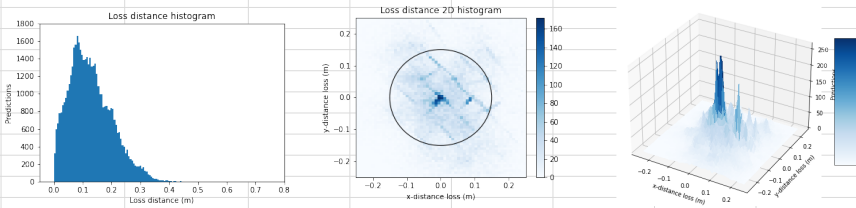
Sensors 6
Input size 8x16
Threshold 0.15 (For accuracy, the localizations inside (Euclidean) distance loss of 0.15 m are considered correct predictions.)
Note: Red sample points are considered for training.



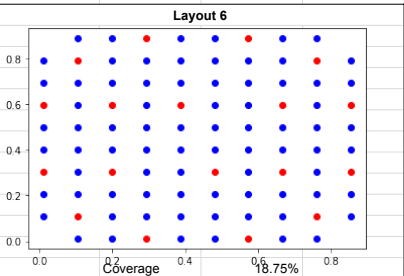
Data type	MSE	Ave error (m)	Max error (m)	Accuracy
Float32	2.18E-02	1.28E-01	4.98E-01	65.84%
Int8	2.15E-02	1.28E-01	6.04E-01	64.93%
HFloat6 (E4M1)	2.06E-02	1.26E-01	6.00E-01	66.41%
Int8 (regularization)	2.18E-02	1.28E-01	5.17E-01	66.12%



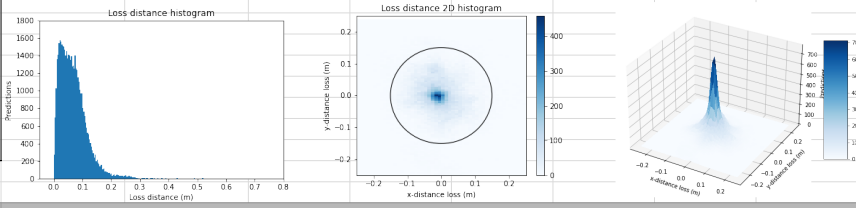
Float32



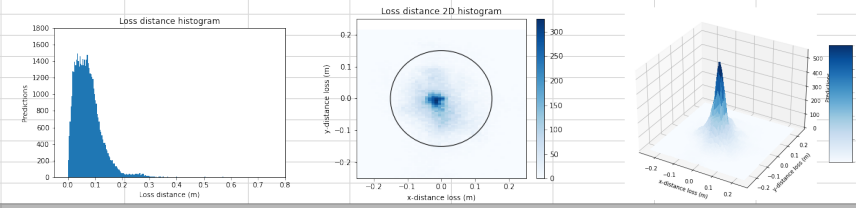
HF6



Data type	MSE	Ave error (m)	Max error (m)	Accuracy
Float32	9.37E-03	7.69E-02	7.32E-01	92.09%
Int8	9.36E-03	7.66E-02	7.37E-01	92.16%
HFloat6 (E4M1)	8.57E-03	7.44E-02	7.84E-01	92.56%
Int8 (regularization)	1.70E-02	1.09E-01	7.63E-01	77.80%



Float32



HF6