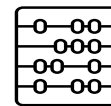


$\{\oplus\oplus\oplus\ldots\}$ Dataset



ANN

Neural Network

Fully connected layers with activations (ReLU, 64-256 neurons) Batch Normalisation.

Raw Fields

x, y, z, p, q, r

Training Input

$x, y, z + d_i, e_i, a_i$

Feature Engineering

Tower distance - d_i
Tower (elevation angle, azimuth) - e_i, a_i

Filter

Remove values:
null/outside normal ranges

Loss Function

$\text{MSE}(p, q, r)$

Model training

$< 1000 \cong$ epoch
convergence

n_layers: 2,
Neurons per Layer:
256

Dropout Rate: 0.5
Learning Rate: 0.01

Output

Convert results from
embedding space to
tensor as final dense
output layer -
(Predicts RSSI)

Tuning

Keras hyperparameter
tuning ($N, L_{neurons}$ lr),
early stopping