NN as aproximator

Realise approximation of sensor characteristics. Try to minimise the NN size, analyse quality, consider training parameters

NN as a support in ODE model

Consider pendulum oscilations – experimental data, think about pure analytical model, consider NN as a model of unmodelled (by linear model) dynamics

NN as a observer

Consider narxnet as a observer for a selected nonlinear system. Think about NN configuration (inputs, delays, layers, transient functions, etc.)