

# Controle de um Braço Robótico usando RNA

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```
clear
clc
close all

sim('GenerareData.slx');      % Open Simulink "Generate Data"
save                          % Save file

net = feedforwardnet(6);      % Classification algorithm
%load('matlab.mat')           % Load created data
load('treinamento_moodle.mat') % Load Data from Moodle

net = train(net,teta',torque'); % Train network

gensim(net,-1)                % Generate block

out = sim(net,teta');          % Recall

% Plot
plot(out(1,:), 'x')
hold on
plot(torque(:,1), 'ro')
```

Saving to: C:\Users\EriveltonDell\Documents\Centro Universitário da FEI\10  
ciclo\ICAC\github\Pendulum\matlab.mat

ans =

untitled2





