
```
noisevar = 0.03.^2;
noisevarmat = [noisevar 0; 0 noisevar];

G = [1 2;3 4];
inputs = [];
outputs = [];
predinputs = [];

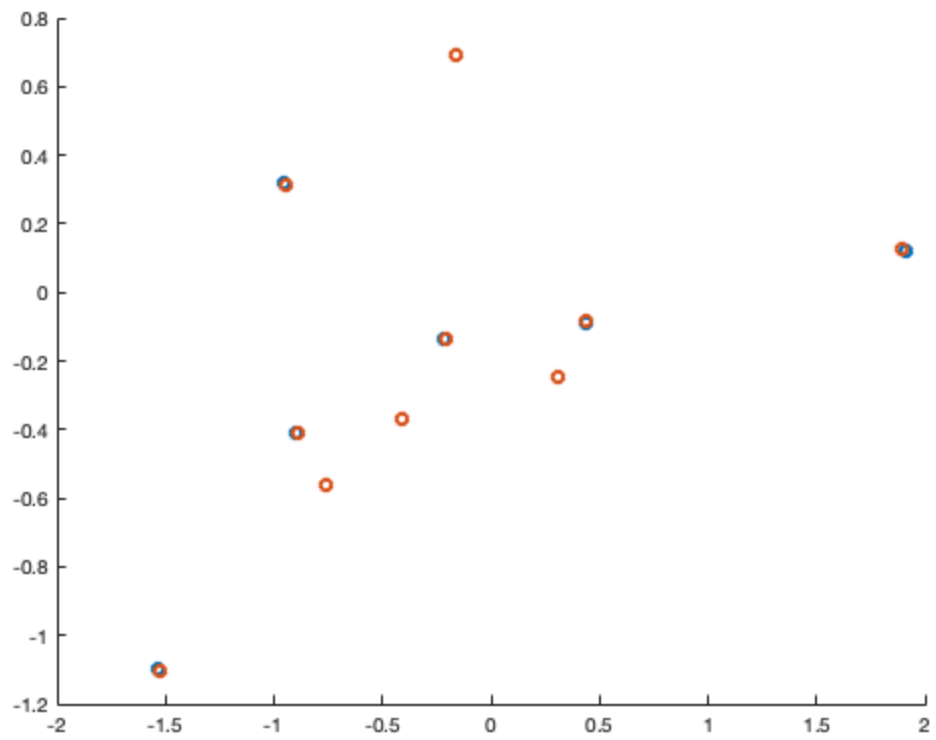
for a=1:10
    X = normrnd(0,1,2,1);
    W = normrnd(0,noisevar,2,1);
    Y = G*X;

    pred = transpose(G)*inv(G*transpose(G)+noisevarmat)*(G*X+W);

    inputs = [inputs X];
    outputs = [outputs Y];
    predinputs = [predinputs pred];
end

inputs = transpose(inputs);
predinputs = transpose(predinputs);

scatter(inputs(1:10),inputs(11:20));
hold on;
scatter(predinputs(1:10),predinputs(11:20));
```



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