
```
clear all
clc

set(0,'defaulttextInterpreter','latex')

EGC = 1 + pi/4;
SC = 3/2;
MRC = 2;

b= 0: 0.1 : 5;

meanSNR = [1 2.5 5];

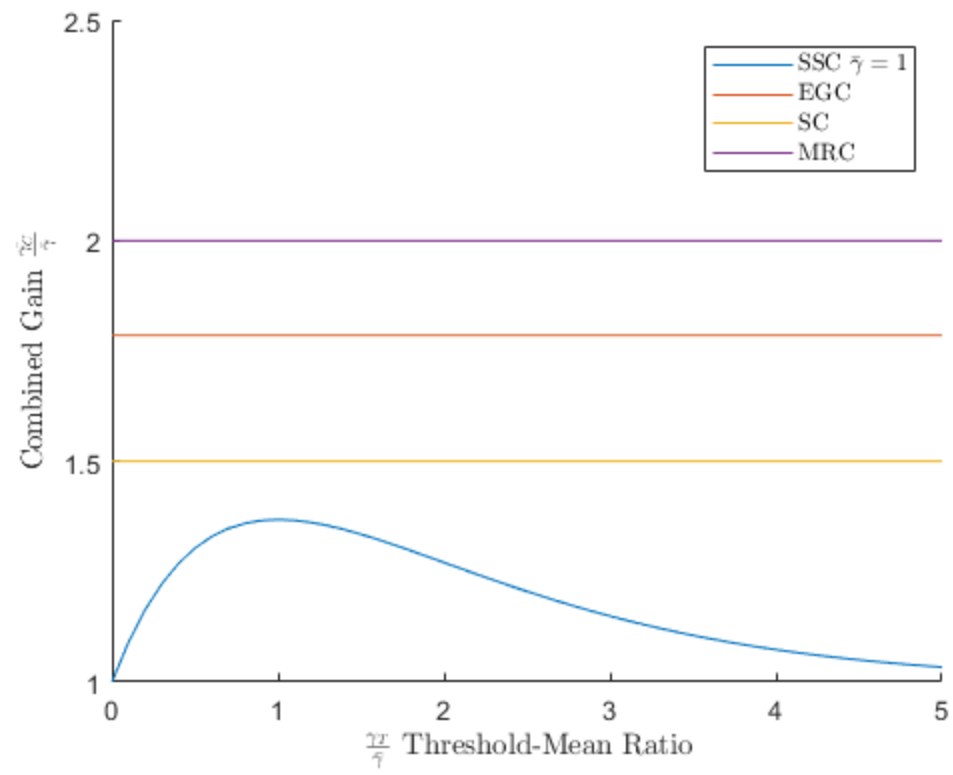
figure(1)
clf

hold on
SSC = 1 + exp(-b).*( meanSNR(1) + b ^-1);
plot(b,SSC)
plot([0 max(b)], [EGC EGC]);
plot([0 max(b)], [SC SC]);
plot([0 max(b)], [MRC MRC]);
hold off

xlabel('$\frac{\gamma_T}{\bar{\gamma}}$ Threshold-Mean Ratio')
ylabel('Combined Gain $\frac{\gamma_C}{\bar{\gamma}}$')

lgf = legend('SSC $\frac{\gamma}{\bar{\gamma}} = 1$', 'EGC', 'SC', 'MRC');
set(lgf,'Interpreter','latex');

ylim([1 2.5])
```



Published with MATLAB® R2017b