```matlab
PerturbedLifeEncoded = Encrypter(Image,PerturbedSequence,'Life',
    Iterations);
PerturbedFredkinEncoded = Encrypter(Image,PerturbedSequence,'Fredkin',
    Iterations);

KeySensitivity(i,:) = ...
    [corr2(LifeEncoded,PerturbedLifeEncoded),
     corr2(FredkinEncoded,PerturbedFredkinEncoded)];
disp(100*i/Simulations)
end
save(filename)
end


%%
figure(1)
hold on
histogram(AdjacentPixelCorr(:,1))
figure(2)
hold on
histogram(AdjacentPixelCorr(:,2))
figure(3)
hold on
histogram(AdjacentPixelCorr(:,3))

load("TestSeri.mat");
figure(1)
histogram(AdjacentPixelCorr(:,1))
figure(2)
histogram(AdjacentPixelCorr(:,2))
figure(3)
histogram(AdjacentPixelCorr(:,3))
```