

### **%% Key sensitivity test**

```
PerturbedSequence = Sequence;  
ChangedIndex = randi(length(PerturbedSequence));  
PerturbedSequence(ChangedIndex) = 1-PerturbedSequence(ChangedIndex);  
  
PerturbedLifeEncoded = Encrypter(Image,PerturbedSequence,'Life',  
    Iterations);  
PerturbedFredkinEncoded = Encrypter(Image,PerturbedSequence,'Fredkin',  
    Iterations);  
  
KeySensitivity(i,:) = ...  
    [corr2(LifeEncoded,PerturbedLifeEncoded),  
     corr2(FredkinEncoded,PerturbedFredkinEncoded)];
```