



# **Processing**

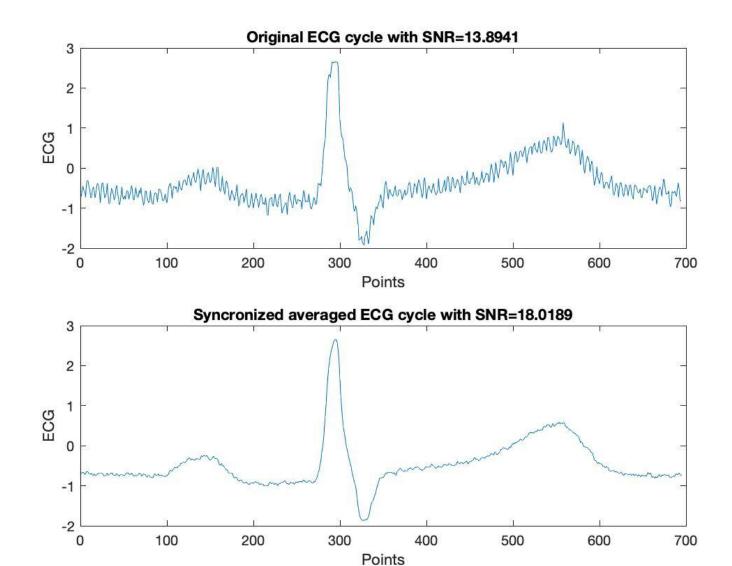
10/17 Homework 1

醫工系109 卓嘉虹 F94051089

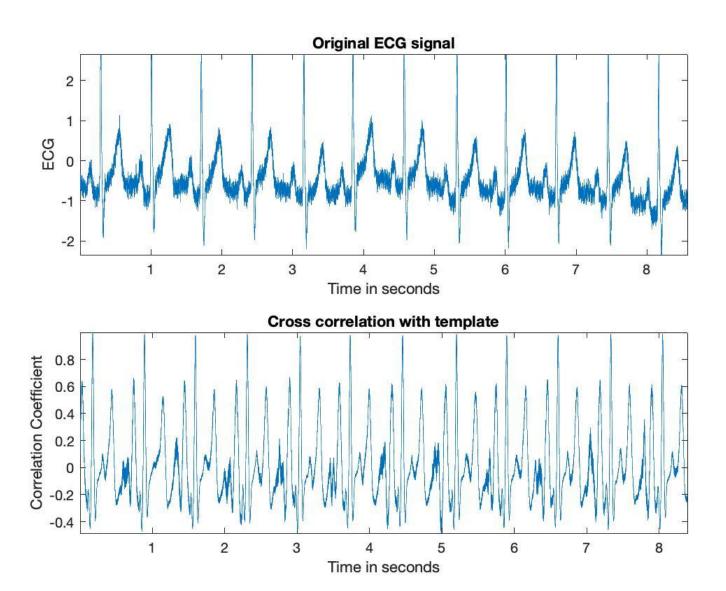


### **Synchronized averaging**

• SNR increased by 4.1248



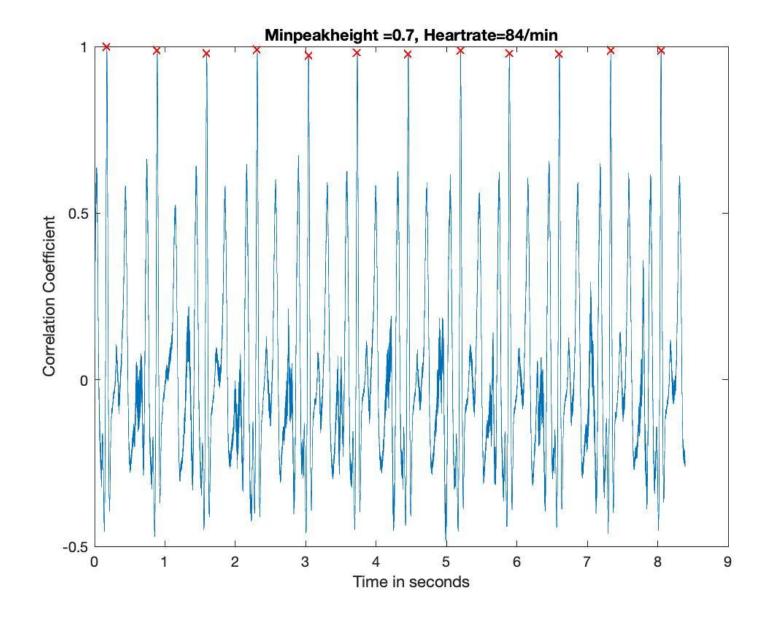
### **Template cross correlation**





# **Beat Detection with different threshold**

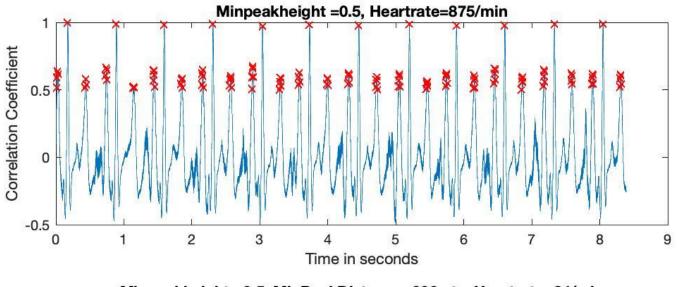
- Threshold =0.7
- Beats=84/min

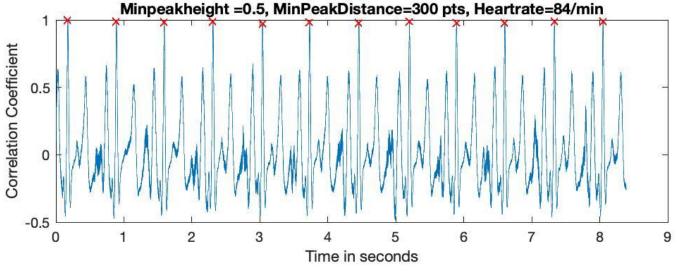




# **Beat Detection with different threshold**

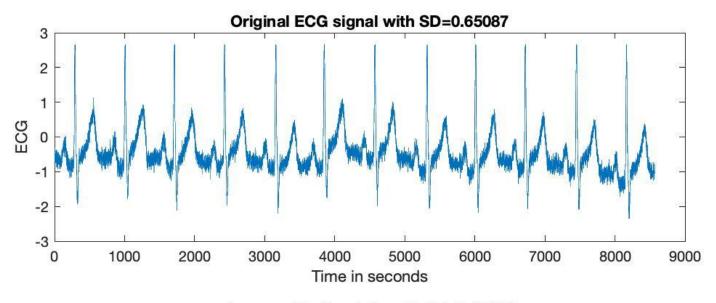
- Threshold =0.5
- Corrected by minpeakdistance=300pts
- Beats=84/min

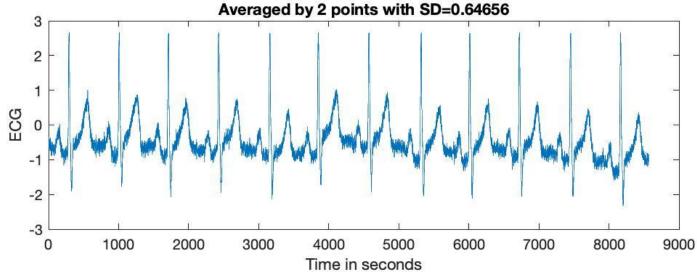




#### Moving averaging by 2 points

SD decreased by 0.00431







#### Moving averaging by 4 points

- Smoother than 2 points
- SD decreased by 0.01252

