BIOMEDICAL SIGNAL PROCESSING
(P-ITJEL-0024)
2021/22 – SEMESTER 1

PROJECT WORK: Fetal ECG detection

Description:

- Create groups of two, in case of need you can work alone.
- Based on the shared datasets, write a MATLAB program that determines the estimated location and the length of fetal QRS intervals.

[fetal_QRSAnn_est,QT_Interval]=bsp_fecg_2021(tm,ecgs,Fs)

- Present your work in a 4-page report in English using the given latex template. Do not forget to refer to the used literature.
- Compress your code and report into a .zip file and send to the godamartonaron+bsp2021@gmail.com. Use the following format to the file name: Monogram1.NeptunID1_Monogram2.NeptunID2 eg.: Tom Hanks and Morgan Freeman → TH.ETS675_MF.JJI987.zip.
- Consultation time on Friday 10-14 hours in room 211 or 204. Considering other groups, please let me know your consultation in advance.
- More details on the moodle or users.itk.ppke.hu/~godma/bsp_2021/

The project deadline is 13 December 23:59.

Budapest, 05.11.2021

Dr. Márton Áron Goda, PhD
full-time assistant professor
Pázmány Péter Catholic University
Faculty of Information Technology and Bionics

Address: Hungary, 1083 Budapest, Práter street 50/a
Office: Room 211 PPKE ITK
Phone: +36 (30) 829 0266
E-mail: goda.marton.aron@itk.ppke.hu