

Meeting 01-31-2021

Notes

- ECG-lib (C++ ECG analysis library): <https://github.com/FDA/ecglib>
- list of good open source ECG tools: <https://awesomeopensource.com/projects/ecg>
- guide on software connected to MIT-BIH database: <https://archive.physionet.org/physio-tools/wag/wag.pdf>
- MIT-BIH Database
- Math of ECGs: Fourier Series
- ECFbrowser and manual
- other ecg viewers: ecgviewer and oemecg
- see how hrv-analysis works <https://pypi.org/project/hrv-analysis/>
- look into min-value theorem for FFT to estimate ECG
- Anomaly detection in ECG based on trend symbolic aggregate approximation
- HRVanalysis: A Free Software for Analyzing Cardiac Autonomic Activity and here is the Python module
- A mathematical procedure for solving the inverse potential problem of electrocardiography. analysis of the time-space accuracy from in vitro experimental data
- Mathematical Modeling of Real Time ECG Waveform: Proceedings of the 2018 Computing Conference, Volume 1
- Modeling Quasi-Periodic Signals by a Non-ParametricModel: Application on Fetal ECG Extraction
- Fractional Dynamical Model for the Generation of ECG like Signals from Filtered Coupled Van-der Pol Oscillators
- The use of Digital Signal Processing Algorithms for Electrophysiological Diagnostics of Cardiovascular Diseases
- Markov Models for Automated ECG Interval Analysis