Abstract

Extensive Research has been done to extracting non-linear features for Heart Rate Variability. Non-Linear Dynamics has many methods which will give better accuracy than linear methods. Human Heart Fluctuates in very complex manner HRV is mainly characterized by linear, non-linear manner. Heart Beat Signal are chaotic in nature which are very complex which is impossible to predict. To extract non-linear patterns from HRV data is very challenging task as compare to the linear pattern. In this paper we presents a brief survey about some important methods which are useful to extract non-linear features such as Phase Space Reconstruction, Lyapunov Exponent, Fractal Dimensions, Recurrence Quantification Analysis.

References

Non-Linear Feature Extraction for Heart Rate Variability: An Overview

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Index Terms

Computer Science
Information Sciences

Keywords
HRV  ECG  Non-Linear Dynamics  Phase Space  Lyapunov  Recurrence Plot.