

ABSTRACT

The topic: Human Indicators Calculation based on the RR-intervals series.

Thesis: 123 p., 39 fig., 10 tab., 2 applications., 21 sources.

Object of the study - human health, emotions, heart, RR intervals.

Subject of the research - methods of the heart rate variability studying.

The purpose of this diploma project is to study the basic methods for the study of heart rate variability, and the calculation of human-states based on RR intervals.

The main methods of evaluating heart rate variability and their application (including expediency, advantages and disadvantages) were studied in detail. A deep analysis of the connection between the performance of the heart and the functional state of the whole organism is carried out.

The processing of records of RR-intervals, the construction of a skaterogram, as well as the determination of the main spectral parameters and the corresponding indices are programmed.

The results obtained can be used to evaluate the general functional state of the organism, the level of stress, etc.

VARIETY OF HEART RHYTHM, RR-INTERVALS, SPECTRAL ANALYSIS,
STRESS.