

ABSTACT

Work contains: 88 p., 21 fig., 11 sources, 6 tabl, 1 appendixe.

The theme: Information technologies for the psychophysical person analysis and his/her heart rate variability.

In this work we study the problem of identifying mental and physical state of human by heart rate variability.

Purpose is to use of information technology and artificial intelligence algorithms to analyze the psychophysical state of person and his/her heart rate variability.

The object of study is psychophysical state of human and heart rate variability.

The subject of study is information technology for the psychophysical person analysis and his/her heart rate variability.

The software product for detection the pulse of the video in ideal environment conditions and constant position of the object was developed.

Development and calculations were carried out in the program MatLab.

PSYCHOPHYSICAL STATE OF HUMAN, HEART RATE VARIABILITY, STRESS INDEX.