

Psychophysiological Health Monitoring

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Abstract—The abstract describes a use case of instrumental methods of monitoring physiological parameters for psychophysiologicalists doctors. This method allows base interaction of doctor-patient relationship, not only on subjective survey data, but also use real measurement data. The first stage of parameters in this case are chosen: heart rate and the calculated indexes of heart rate variability, blood pressure and consumer EEG devices with 1 and 4 channels. The system monitors physiological parameters, combine them with the data of surveys filled out himself by the patient and

provides a comfortably form for the physician for further analysis. Physiological parameters and survey data are accumulated in a specialized mobile app created for Android OS and transmitted in real-time mode to the server, based on MDD Cloud platform. The system allows monitoring the state of patients in real-time, preventing or reducing a risk of bad conditions of psychological state and prepare data for analysis at a later doctor visit, which allows for a more complete and accurate diagnosis..