

The press service of the St. Petersburg State University of Aerospace Engineering (GUAP) said that a university student has developed a new method of diagnosing heart violations. The neurusterity algorithm analyzes the cardiosignals and compares them with the indicators of a healthy heart, warning about possible arrhythmias.

As the author of the project Olga Lifanova explained, the technology works autonomously and does not require constant monitoring of a doctor. The system can integrate with smart hours or medical monitors, giving out a percentage result-100% means normal functioning of the heart.

Development is especially useful for continuous monitoring of patients. Under hospital conditions, data can be transmitted to the doctor in real time, and for home use the method is quite simple and does not require special equipment.

The method is based on research of four types of cardiosignals conducted at the Institute of Experimental Medicine. The neural network is trained to recognize both normal rhythm and various violations, including arrhythmia.

The university plans to cooperate with medical technology manufacturers and pharmaceutical companies to implement development.