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Invention Title	PATIENT VITAL SIGNS PREDICTION ALGORITHM - AI-POWERED DECISION SUPPORT SYSTEM FOR NURSING PROFESSIONALS
Publication Number	23/2024
Publication Date	07/06/2024
Publication Type	INA
Application Number	202441041987
Application Filing Date	30/05/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61B0005000000, G16H0040670000, G16H0050200000, G16H0010600000, G06Q0010060000

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Abstract:

The present invention introduces a sophisticated decision support system tailored to nursing professionals in clinical settings, leveraging artificial intelligence (AI) algorithm predict patient vital signs trends and enable proactive interventions. Through integration with wearable devices and support for telehealth initiatives, the system enhances continuity and accessibility of vital signs monitoring, empowering nursing staff with real-time insights and personalized care recommendations. By analyzing extensive pat data and continuously refining predictive models, the system improves the efficiency, effectiveness, and safety of clinical decision-making processes, ultimately contributin better patient outcomes and enhanced quality of care in diverse healthcare environments.

Complete Specification

Description:The present invention relates generally to healthcare technology and, more specifically, to the field of clinical decision support systems for nursing professionals. Specifically, the invention pertains to the utilization of artificial intelligence (AI) algorithms to predict patient vital signs and provide proactive decision supp in clinical settings. By harnessing machine learning techniques and advanced data analysis, the invention aims to enhance patient care by enabling early detection of abnormalities and facilitating timely interventions by healthcare providers. The system is designed to improve the efficiency and effectiveness of nursing professionals in monitoring and managing patient health, ultimately contributing to better clinical outcomes and enhanced patient safety.
BACKGROUND OF THE INVENTION
The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects of the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding the reader with respect to the present disclosure, and not as admissions of prior art.

In modern healthcare systems, the accurate monitoring and management of patient vital signs are critical for ensuring timely interventions and optimal clinical outcome Vital signs, including but not limited to blood pressure, heart rate, respiratory rate, temperature, and oxygen saturation, serve as essential indicators of a patient's physiological status. Nursing professionals play a central role in continuously monitoring these vital signs and responding promptly to any deviations from normal values

Traditionally, vital signs monitoring has relied on periodic measurements taken by healthcare providers at fixed intervals. However, this approach may miss sudden chan

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