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(57) Abstract :
The invention discloses an AI-guided system for detecting cardiac abnormalities in patients, comprising a data acquisition module (101), preprocessing unit (102), AI-analysis engine (103), cloud interface (104), alert system (105), and user interface (106). The system collects cardiac signals, preprocesses data, analyzes abnormalities using deep learning, and delivers real-time alerts with interpretable diagnostic outputs. Designed for integration with hospital systems and wearable devices, the invention ensures accurate, scalable, and adaptive detection of cardiac conditions, thereby improving patient safety, emergency responsiveness, and overall healthcare outcomes.

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