PETER L.
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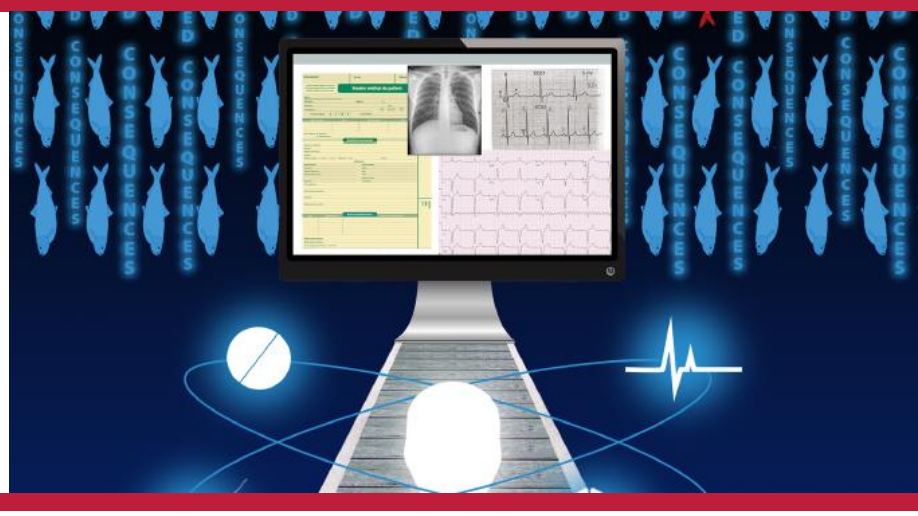
INFORMATIK



# Ringvorlesung Medizinische Informatik

## Evaluating mHealth Electrocardiography in Clinical Settings: Blueprint for the Buildout of a Digital ECG Recording Mobile App with regards to ECG Acquisition, User Requirements and Regulations.

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For a century, resting electrocardiogram (ECG) has been utilized as a basic cardiac diagnostic. Although the principle is still identical, in present health care settings the use of tablets, computers, and networks are a daily trade.

Consequently, current ECG diagnostics systems are developing to fit today's needs which include modernized workflow, ease of use, mobility and convenient integration of data with existing systems and depend upon digital measurement, analysis, and storage.

Although it is believed that digital ECG system contributes to workflow optimization in some clinical scenarios, and provides better ECG acquisition, recording and interpretation, ECGs and ECG interpretation have traditionally been paper-based. Often, there is a timed lap between when a cardiologist has formally interpreted the ECG for the medical record and when the nurse obtains the ECG. Also, in some medical practice environment, providers sometimes want to fax to the interpreting cardiologist a copy of the electrocardiogram and as a result, the quality of ECG can be considerably affected by the fax process and consequently affect the accuracy of the interpretation.

To date, numerous of these shortcomings still exist in medical practices and hospitals environments. The issue has grown importance considering recent demand for improved healthcare outcomes combined with calls for broader adoption of eHealth and digitalization.

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