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**Review of recent results on ECG compression and classification.** (English) Zbl 1340.94029

Bul. Inst. Politeh. Iași, Secția Autom. Calc. 60(64), No. 1, 13-26 (2014).

Summary: In this paper several recent results on ECG signals compression and classification with particular emphasis on compressed sensing are reviewed. The discussion covers aspects regarding data acquisition, segmentation, preprocessing, feature extraction, reconstruction, classification and quality evaluation based on a new quality score defined in this communication.

**MSC:**

**94A12** Signal theory (characterization, reconstruction, filtering, etc.)

**90C05** Linear programming

**68P30** Coding and information theory (compaction, compression, models of communication, encoding schemes, etc.) (aspects in computer science)

**Keywords:**

signal theory; compression; approximation algorithms; linear programming