

BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI  
TOMUL LIV (LVIII), FASC. 3, 2008  
ELECTROTEHNICĂ, ENERGETICĂ, ELECTRONICĂ

## DYNAMIC MONITORING SYSTEM OF HEART RATE VARIABILITY PARAMETERS

BY

**\*M. STANCIU, \*A. BOEV, \*MIHAELA ALBU and \*BRÂNDUȘA  
PANTELIMON**

**Abstract.** Recent investigations in cardiac activity mechanisms demonstrate the importance of the HRV (heart rate variability) dynamic analysis. In this paper is presented a software application for performing a dynamic HRV analysis using time framing (data windows) and appropriate sliding steps as chosen by investigator. The application provides a high degree of versatility and the paper presents the algorithms, some experimental results and their significance.

**Keywords:** ECG, heart rate variability (HRV), ECG recording, statistics.