LukÃ¡Å¡ Smital

List of Publications by Year
in descending order

16 papers	385 citations	1307594 7 h-index	1281871 11 g-index
16 all docs	16 docs citations	16 times ranked	390 citing authors

#	Article	IF	Citations
1	Reliable P wave detection in pathological ECG signals. Scientific Reports, 2022, 12, 6589.	3.3	7
2	Brno University of Technology Smartphone PPG Database (BUT PPG): Annotated Dataset for PPG Quality Assessment and Heart Rate Estimation. BioMed Research International, 2021, 2021, 1-6.	1.9	6
3	Monitoring of heart rate, blood oxygen saturation, and blood pressure using a smartphone. Biomedical Signal Processing and Control, 2020, 59, 101928.	5.7	61
4	Real-Time Quality Assessment of Long-Term ECG Signals Recorded by Wearables in Free-Living Conditions. IEEE Transactions on Biomedical Engineering, 2020, 67, 2721-2734.	4.2	45
5	Advanced P Wave Detection in Ecg Signals During Pathology: Evaluation in Different Arrhythmia Contexts. Scientific Reports, 2019, 9, 19053.	3.3	22
6	Assessment of ECG Signal Quality After Compression. IFMBE Proceedings, 2019, , 169-173.	0.3	1
7	Automatic Detection of P Wave in ECG During Ventricular Extrasystoles. IFMBE Proceedings, 2019, , 381-385.	0.3	10
8	Multi-stage SVM approach for cardiac arrhythmias detection in short single-lead ECG recorded by a wearable device. Physiological Measurement, 2018, 39, 094003.	2.1	22
9	A Comparative Analysis of Methods for Evaluation of ECG Signal Quality after Compression. BioMed Research International, 2018, 2018, 1-26.	1.9	42
10	ECG features and methods for automatic classification of ventricular premature and ischemic heartbeats: A comprehensive experimental study. Scientific Reports, 2017, 7, 11239.	3.3	51
11	Efficient implementation of Stockwell Transform for real-time embedded processing of physiologic signals. , 2017, 2017, 2598-2601.		4
12	Clinical accuracy QRS detector with automatic parameter adjustment in an autonomous, real-time physiologic monitor. , 2017, , .		0
13	Towards real-time QRS feature extraction for wearable monitors. , 2016, 2016, 3519-3522.		7
14	Adaptive Wavelet Wiener Filtering of ECG Signals. IEEE Transactions on Biomedical Engineering, 2013, 60, 437-445.	4.2	103
15	Optimization of the wavelet Wiener filtering for ECG signals. , 2011, , .		0
16	Robust QRS Detection Using Combination of Three Independent Methods. , 0, , .		4