List of Tables

Tables	*Title*	*page*
2.1	Digital signal processors	17
2.2	Wireless modules	21
3.1	Percentage power spectrum of the PCG signal in 10 Hz bins	36
3.2	Percentage power spectrum of the SCG signal in 10 Hz bins	36
3.3	'Clinical' scenario: Detection rate of S1 and S2, and number of false points detected in PCG and SCG signals	39
3.4	'In meeting' scenario: Detection rate of S1 and S2, and number of false points detected in PCG and SCG signals	40
3.5	'Walking' scenario: Detection rate of S1 and S2, and number of false points detected in PCG and SCG signals	42
3.6	'motion of patient' scenario: Detection rate of S1 and S2, and number of false points detected in PCG and SCG signals	43
3.7	'Travelling' scenario: Detection rate of S1 and S2, and number of false points detected in PCG and SCG signals	44
3.8	'Market' scenario: Detection rate of S1 and S2, and number of false points detected in PCG and SCG signals	45
3.9	Quality index for PCG and SCG signal in different scenarios	46
4.1	Obtained SNR (in dB) of the denoised PCG signals (average of 10 instances $\pm$ standard deviation) contaminated with simulated white Gaussian noise	61
4.2	Result for the PCG signals contaminated with noise generated in real-life scenarios	63
4.3	Result for PCG signal with murmur	65
4.4	Obtained detection rate of S1 and S2, and number of false points in various scenarios	71
5.1	Execution time (seconds) taken by the proposed method, WT method, and C-TQWT method for aortic regurgitation case at various signal length	86
5.2	Obtained segmentation rate (%) using the proposed method, WT method, and C-TQWT method for various pathological cases without additive noise and with added noise simulated using white Gaussian , red, and pink noise models	87
6.1	Obtained diagnostic parameters for 10 subjects	94