

List of Abbreviations

<i>Abbreviation</i>	<i>Full form</i>
AC	Aortic Valve Closure
ADC	Analog to Digital Converter
AF	Atrial Fibrillation
AHA	American Heart Association
AI	Artificial Intelligence
ALE	Adaptive Line Enhancer
ANC	Adaptive Noise Cancellation
AO	Aortic Opening
AR	Aortic Regurgitation
AS	Aortic Stenosis
ASIC	Application-Specific Integrated Circuit
AWGN	Added White Gaussian Noise
BCG	Ballistocardiography
BAN	Body Area Network
CAD	Coronary Artery Diseases
CC	Capacitive Coupled
CO	Cardiac Output
COPD	Chronic Obstructive Pulmonary Disease
CPR	Cardio-Pulmonary Resuscitation
CS	Compressed Sensing
CSCW	Cardiac Sound Characteristic Waveform
C-TQWT	Constrained-Tunable Quality Wavelet Transform
CVD	Cardio-Vascular Disease
CWT	Continuous Wavelet Transform
DCT	Discrete Cosine Transform
DSP	Digital Signal Processor
DVP	Digital Volume Pulse
DWT	Discrete Wavelet Transform
ECG	Electrocardiography
ECHO	Echocardiography)
E-M	Electro-Mechanical
FHS	Fundamental Heart Sound
F-IMF	First order-Intrinsic Mode Function
FPGA	Field-Programmable Gate Array
GA	Genetic Algorithm
HMM	Hidden Markov Model
HRV	Heart Rate Variability
HT	Hilbert Transform

ICG	Impedance Cardiography
ICU	Intensive Care Unit
IM	Isovolumic Movement
LED	Light Emitting Diodes
LMS	Least Mean Square
LVET	Left Ventricular Ejection Time
MC	Mitral Valve Closure
MD	Mean Deviation
MEMS	Micro-Electro Mechanical System
M FCC	Mel-Frequency Cepstral Coefficient
MI	Myocardial Infarction
MO	Mitral Valve Opening
MR	Mitral Regurgitation
MS	Mitral Stenosis
MSP	Mixed-Signal Processor
MSPCA	Multi-scale Principal Component Analysis
NASE	Normalized Average Shannon Energy
NFC	Near Field Communication
PC	Personal Computer
PCA	Principal Component Analysis
PCB	Printed Circuit Board
PCG	Phonocardiography
PEP	Pre-Ejection Period
PIC	Programmable Interface Controllers
PPG	Photoplethysmography
PS	Pulmonary Stenosis
PTT	Pulse Transit Time
RE	Rapid Systole Ejection
RFID	Radio-Frequency Identification
RI	Reflection Index
rPPG	Remote-Photoplethysmography
SBP	Systolic Blood Pressure
SCG	Seismocardiography
SI	Stiffness Index
SNR	Signal-to-Noise Ratio
STFT	Short Time Frequency Transform
SURE	Stein's Unbiased Risk Estimation
SV	Stroke Volume
TDP	Tosade de Pointes
TEO	Teager Energy Operator
TQWT	Tunable Quality Wavelet Transform
UDFT	Unitary Discrete Fourier Transform
WT	Wavelet Transform