

Convolutional Neural Network for Classification of Eight types of Arrhythmia using 2D Time-Frequency Feature Map from Standard 12-lead Electrocardiogram

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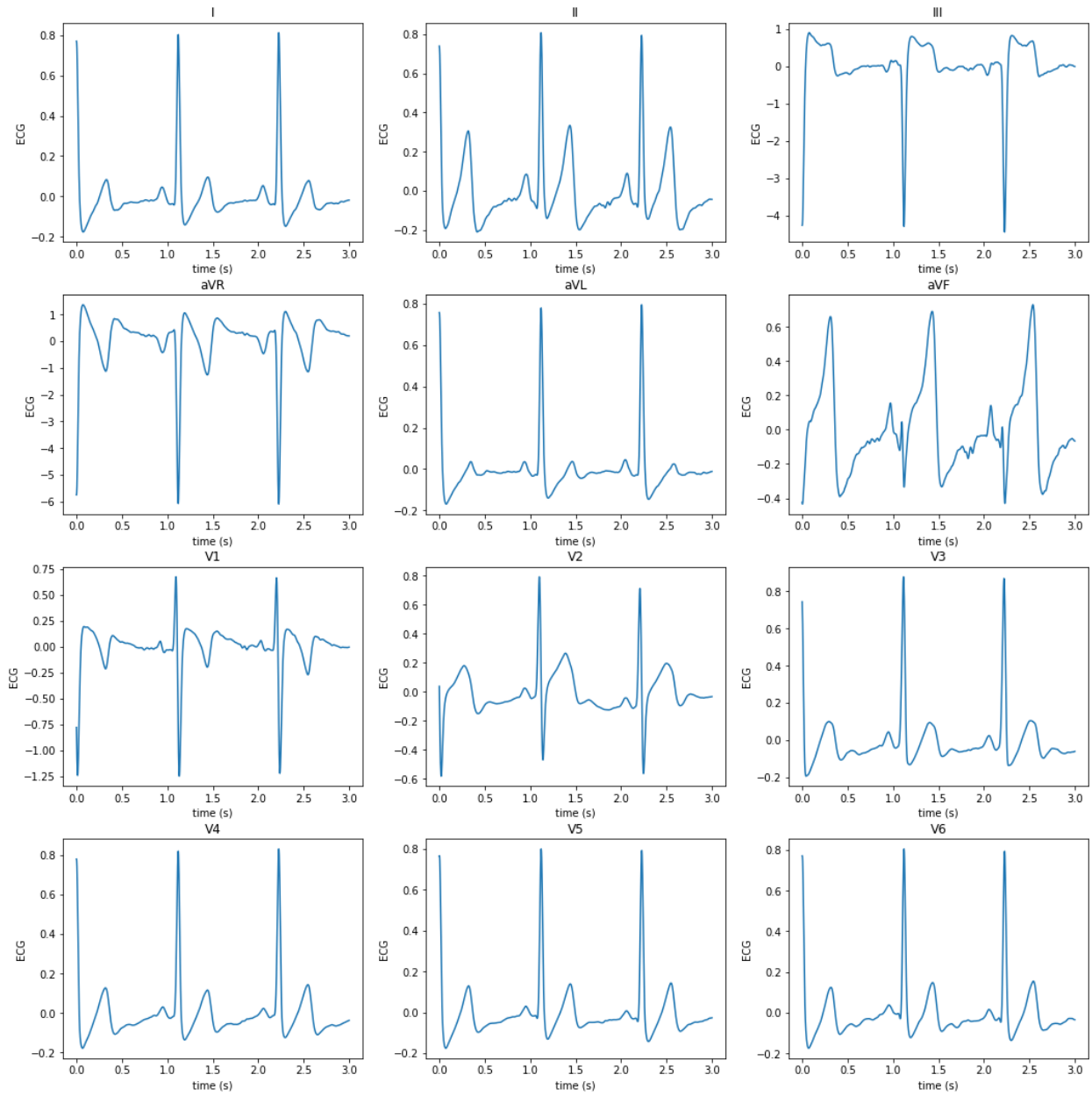
Supplementary Tables

Supplementary Table S 1. The number of arrhythmia classes

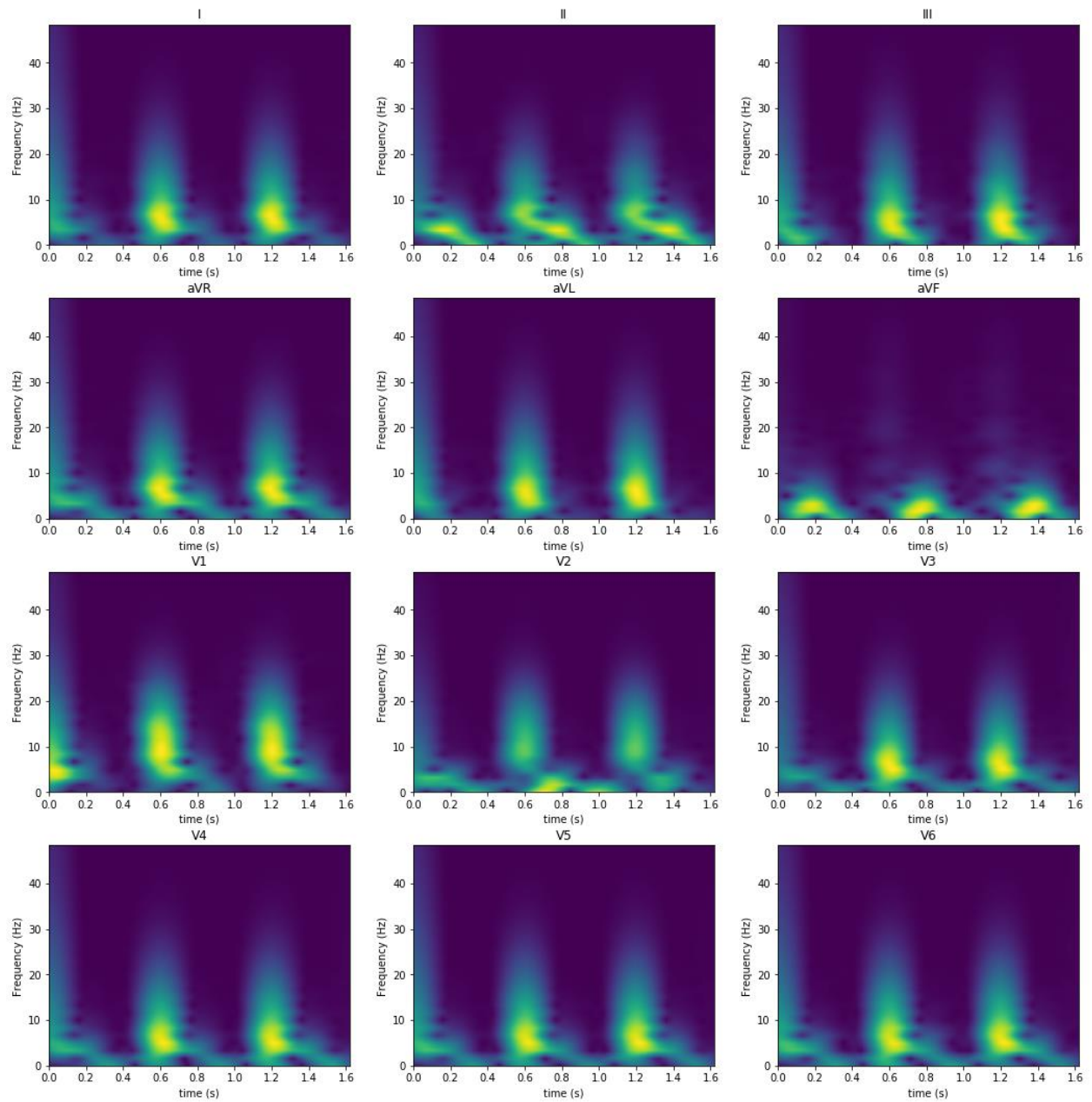
	AF	I-AVB	LBBB	Normal	PAC	PVC	RBBB	STD	STE
AF	1221	-	-	-	-	-	-	-	-
I-AVB	0	722	-	-	-	-	-	-	-
LBBB	29	8	199	-	-	-	-	-	-
Normal	0	0	0	918	-	-	-	-	-
PAC	4	3	10	0	544	-	-	-	-
PVC	8	5	6	0	3	627	-	-	-
RBBB	172	10	0	0	55	51	1675	-	-
STD	30	6	0	0	6	18	20	786	-
STE	2	4	4	0	2	2	16	2	185

* AF, atrial fibrillation; I-AVB, first-degree atrioventricular block; LBBB, left bundle branch block; Normal, Normal sinus rhythm; PAC, premature atrial contraction; PVC, premature ventricular contraction; RBBB, right bundle branch block; STD, ST-segment depression; STE, ST-segment elevation

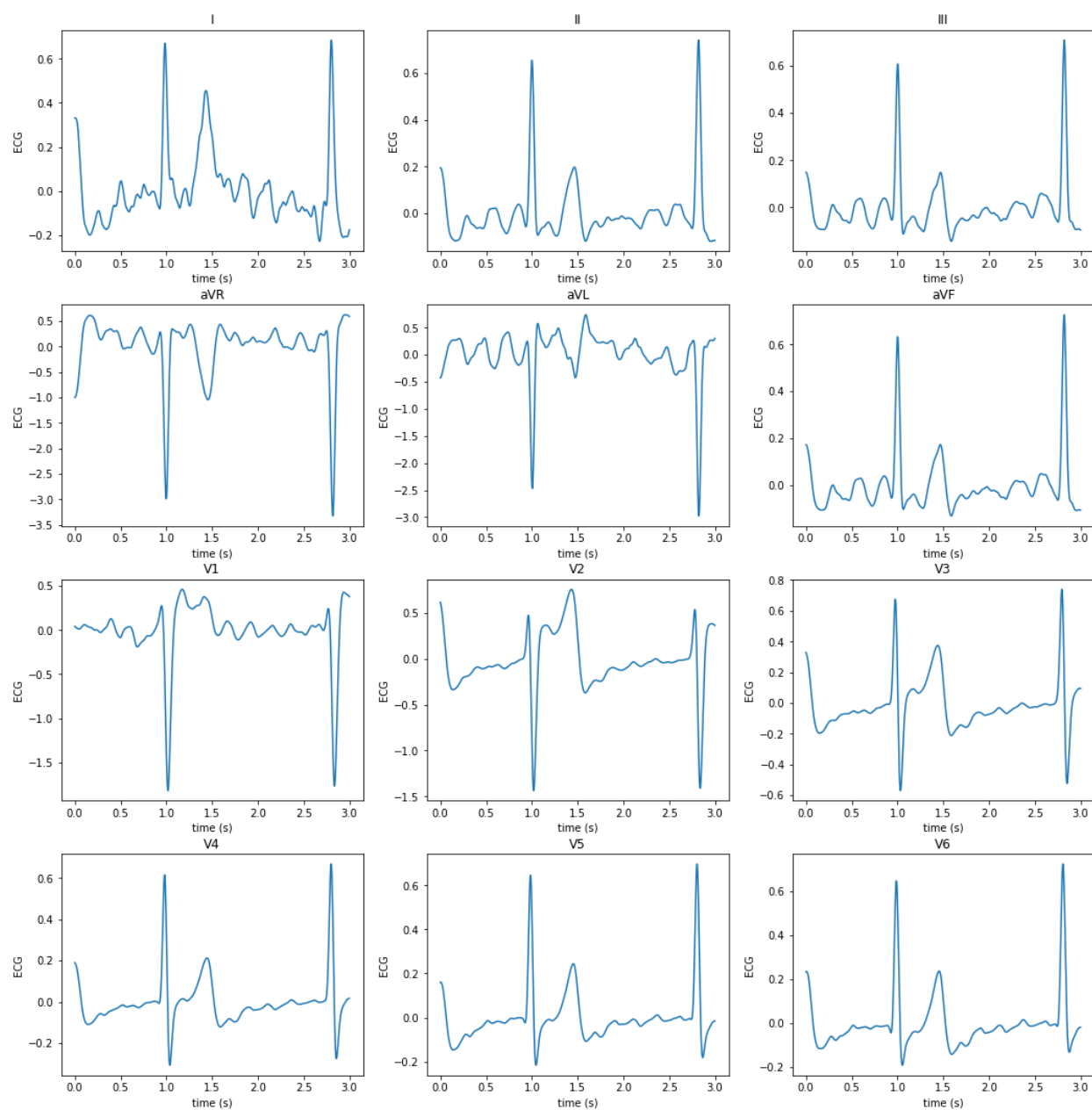
Supplementary Figures



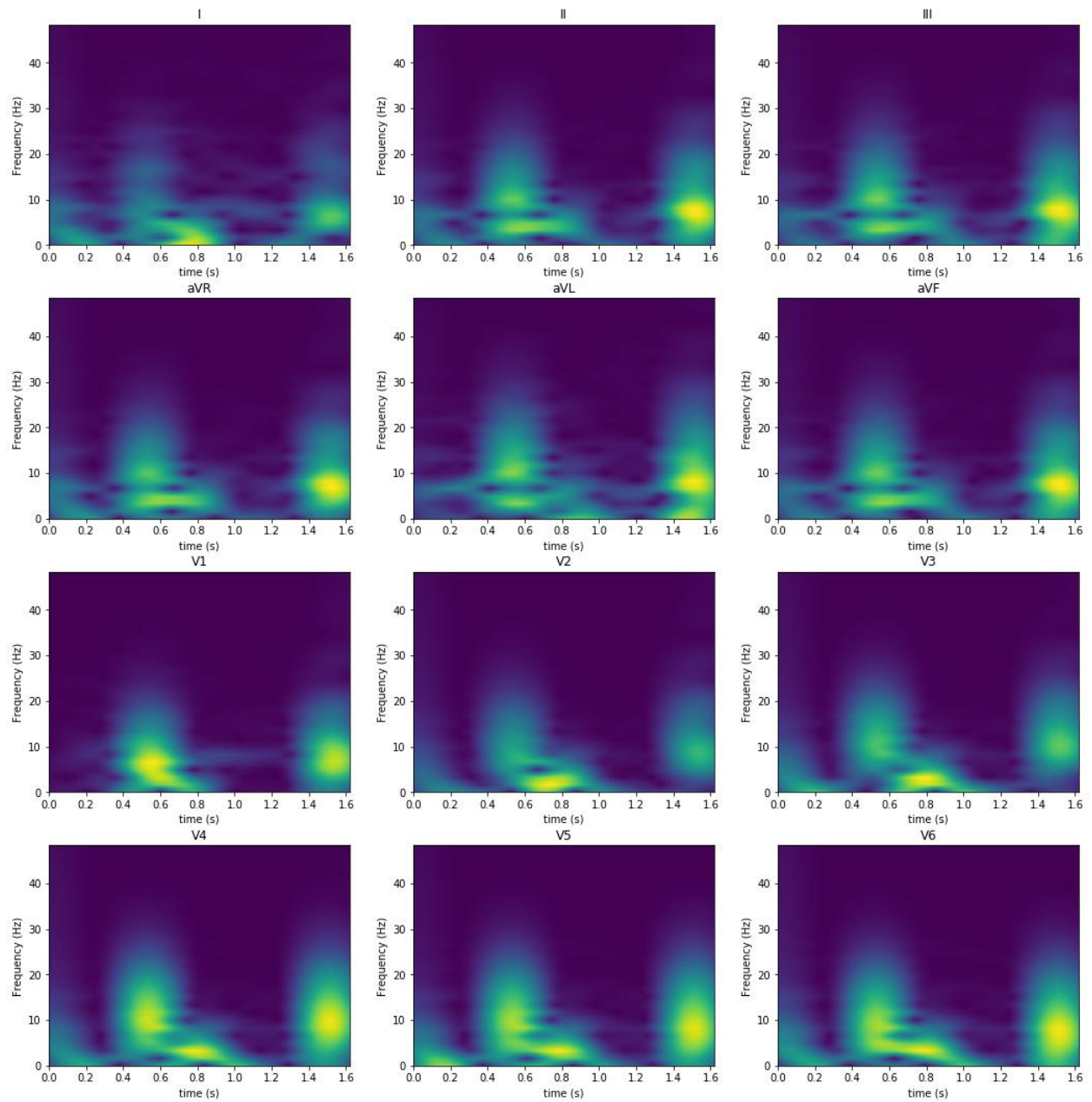
Supplementary Figure S 1. ECG waveform of normal patient.



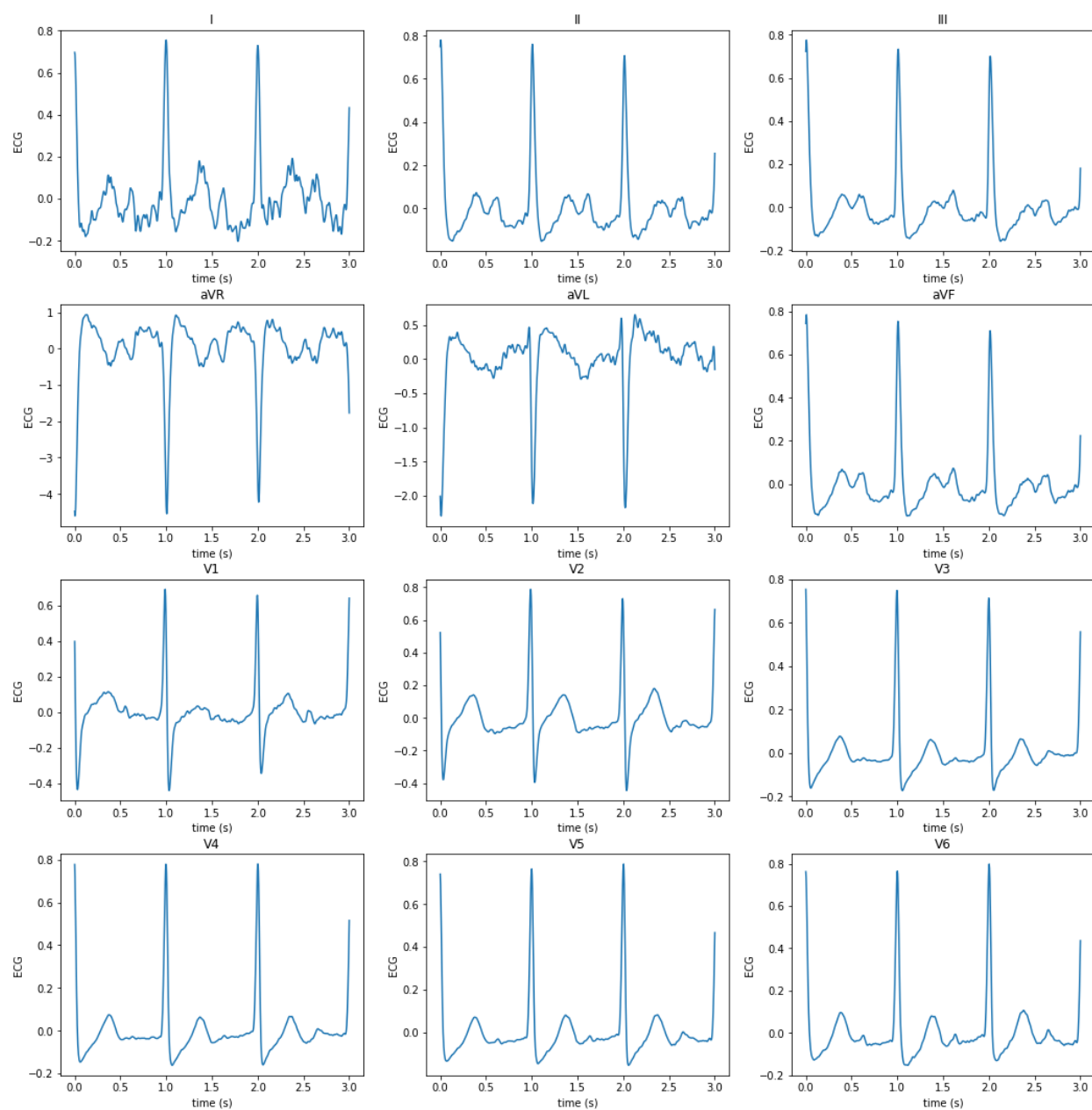
Supplementary Figure S 2. Time-frequency maps of Normal patient.



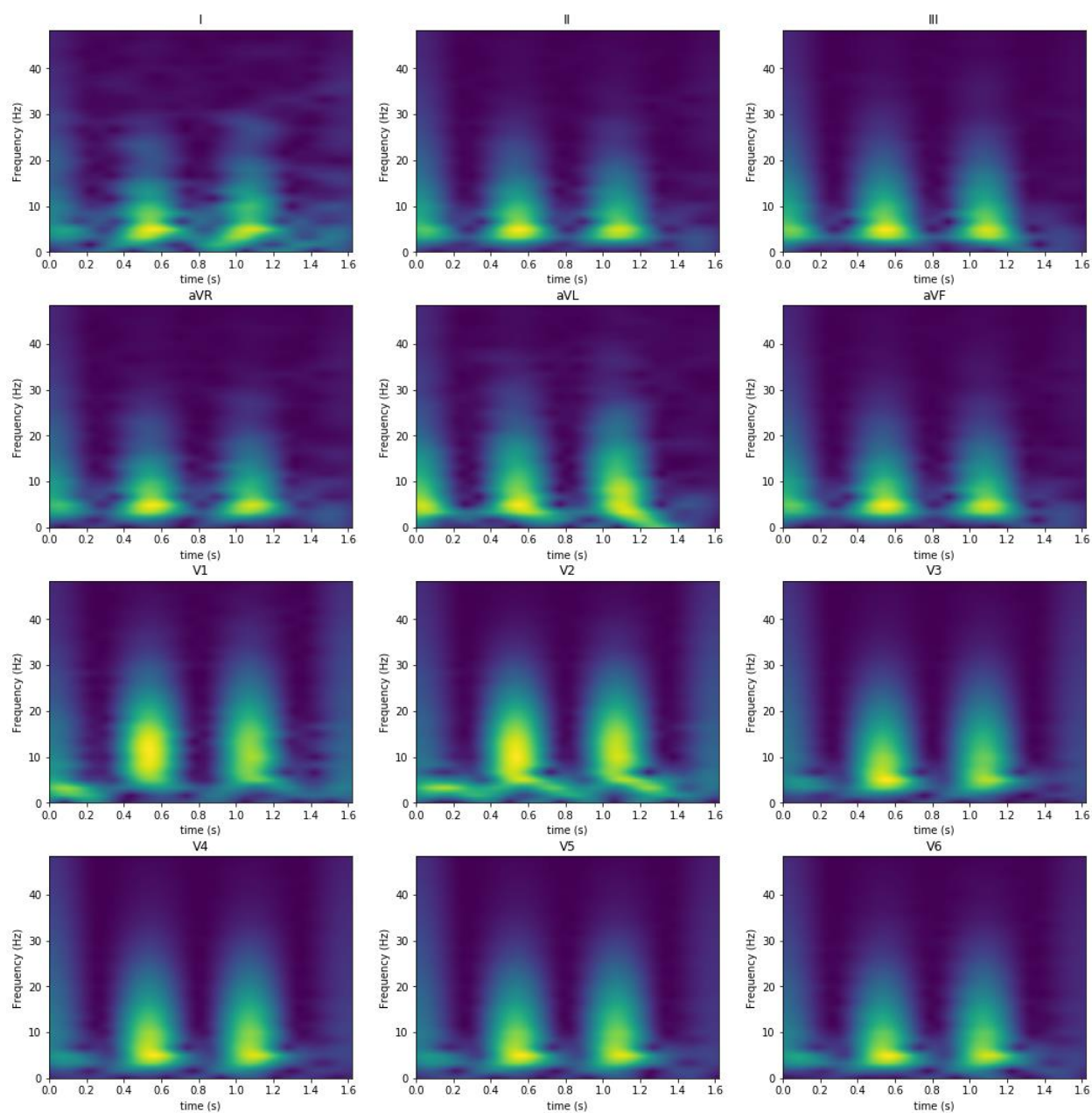
Supplementary Figure S 3. ECG waveform of AF patient



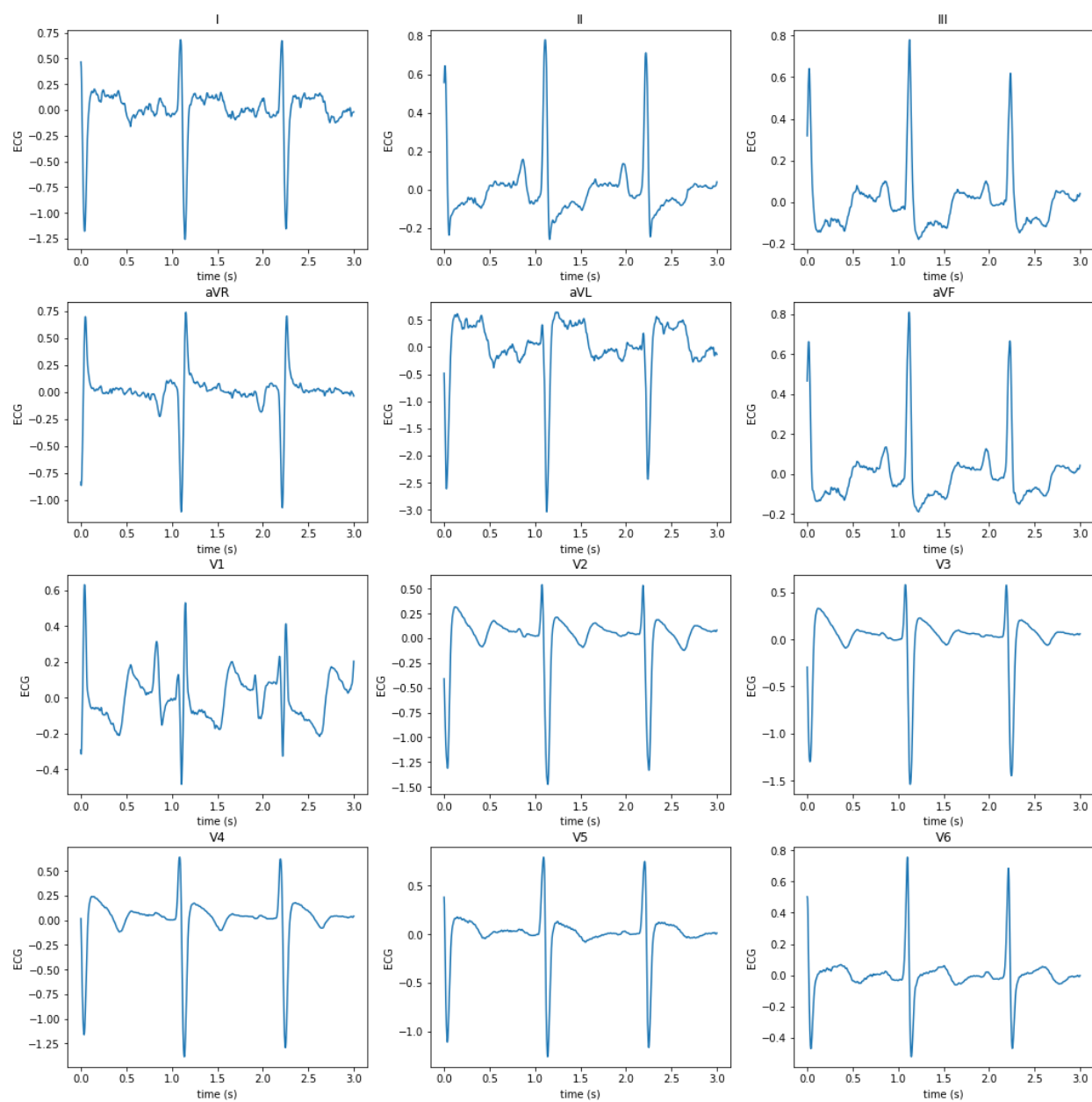
Supplementary Figure S 4. Time-frequency map for AF patient



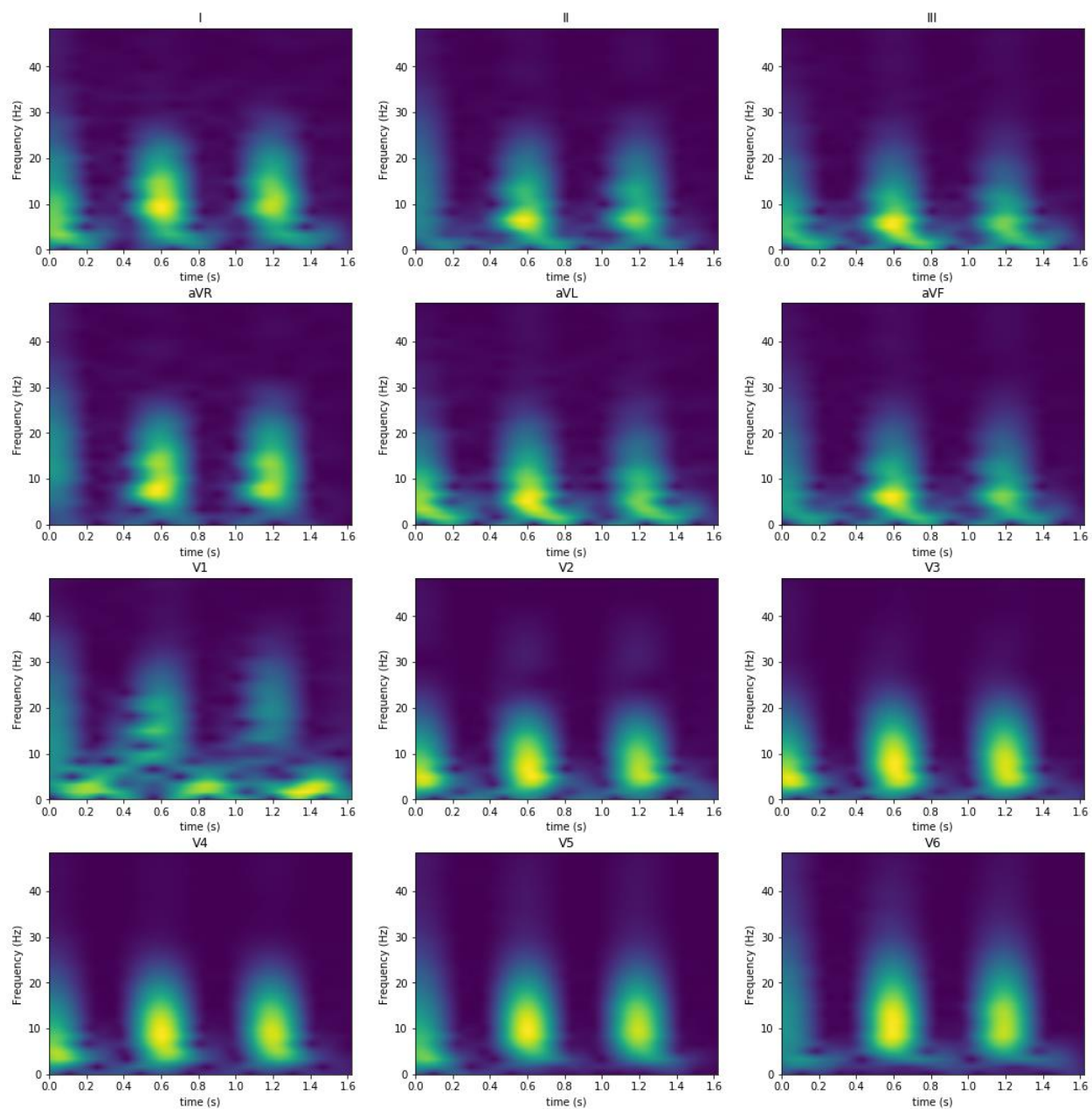
Supplementary Figure S 5. ECG waveform of I-AVB patient



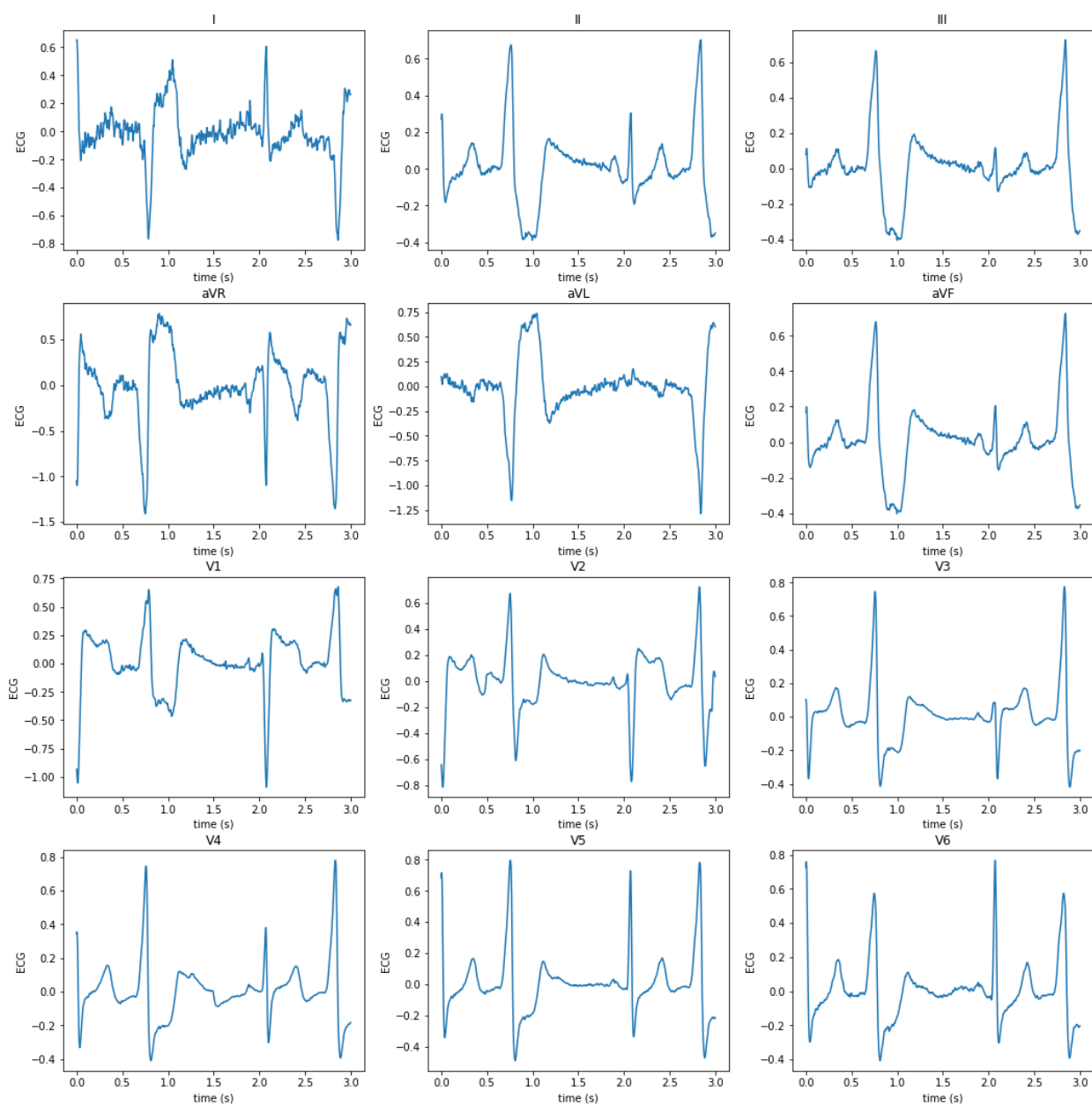
Supplementary Figure S 6. Time-frequency map of I-AVB patient



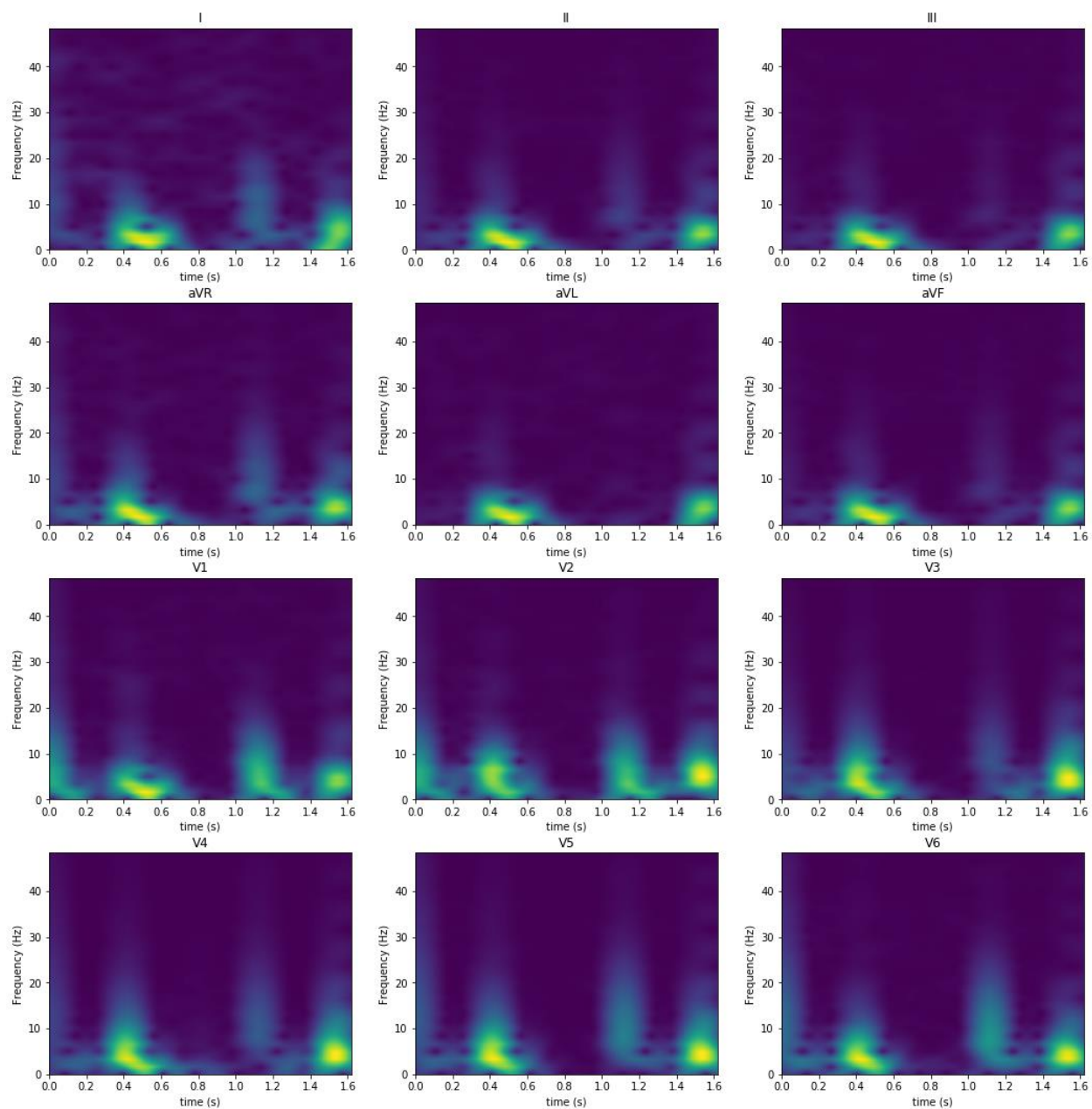
Supplementary Figure S 7. ECG waveform of PAC patient



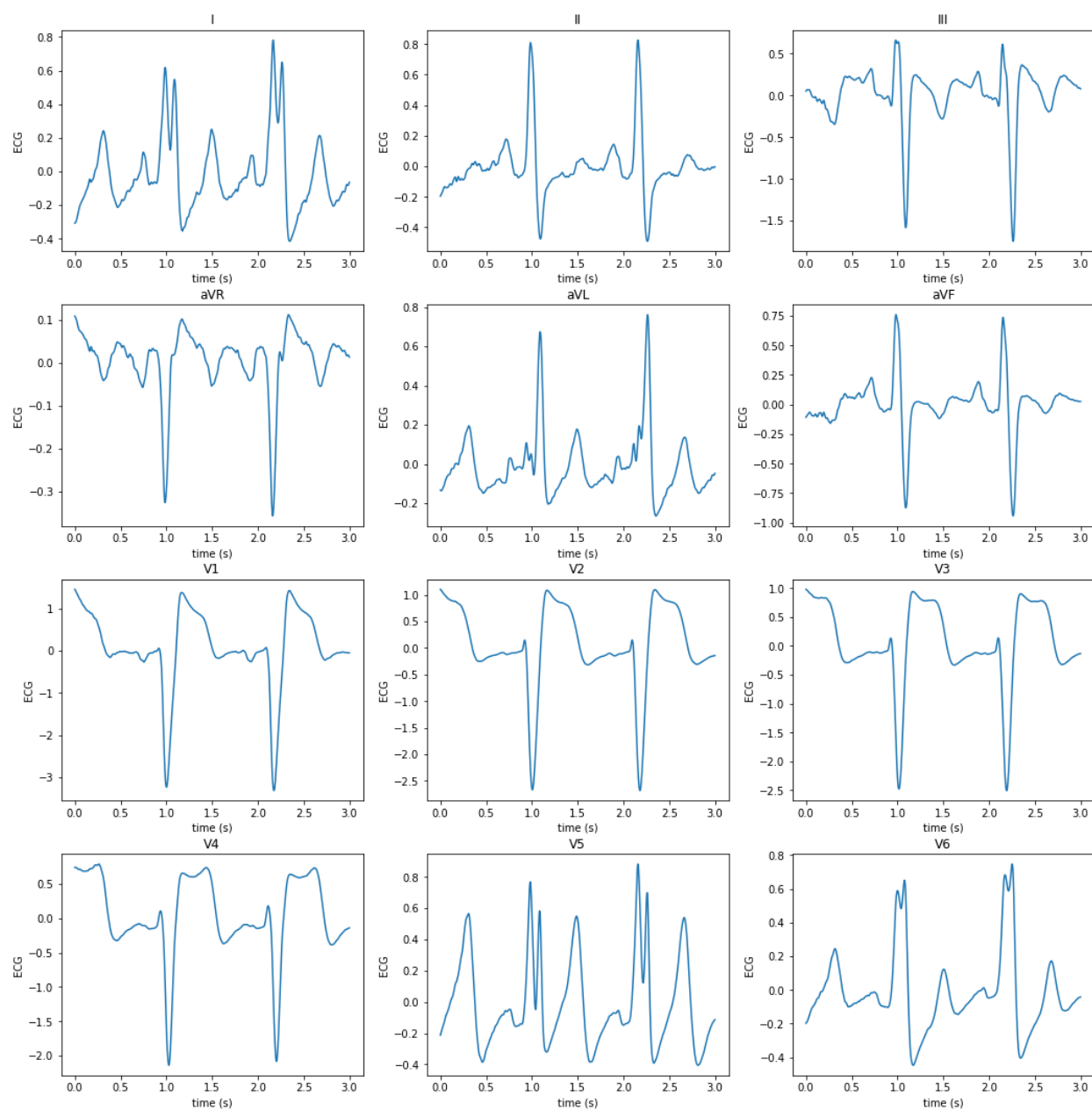
Supplementary Figure S 8. Time-frequency maps of PAC patient



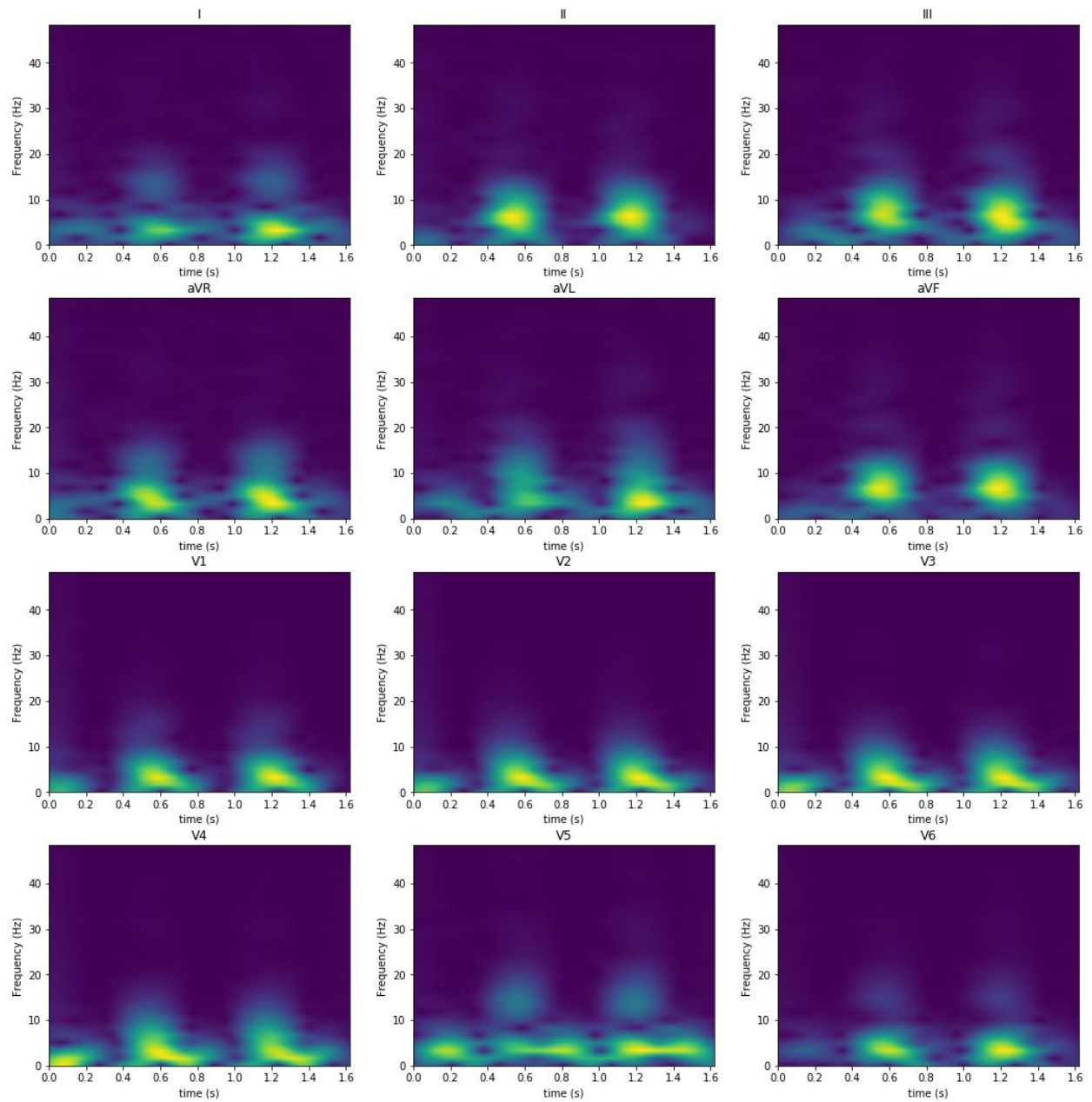
Supplementary Figure S 9. ECG waveform of PVC patient



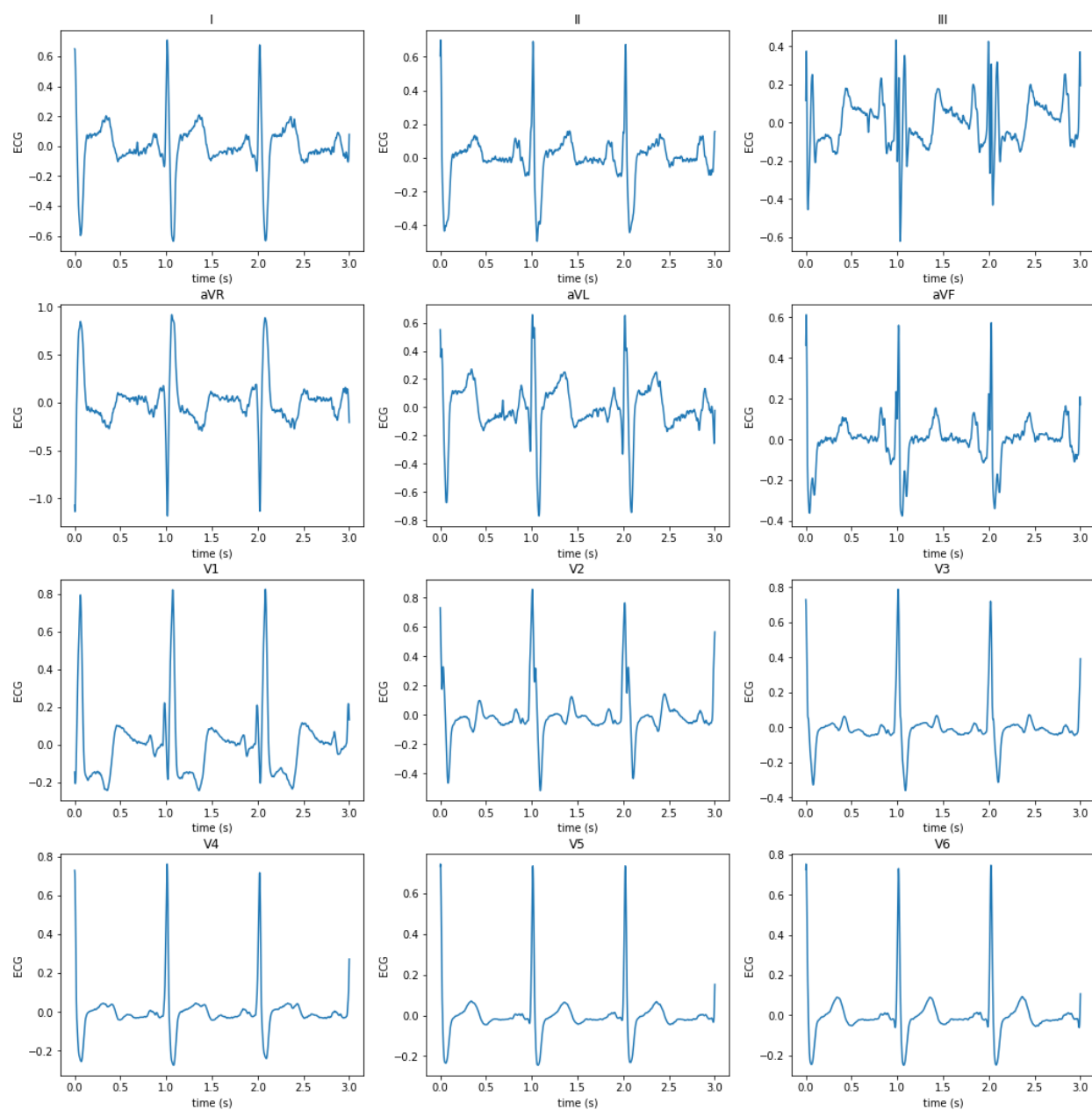
Supplementary Figure S 10. Time-frequency maps of PVC patient



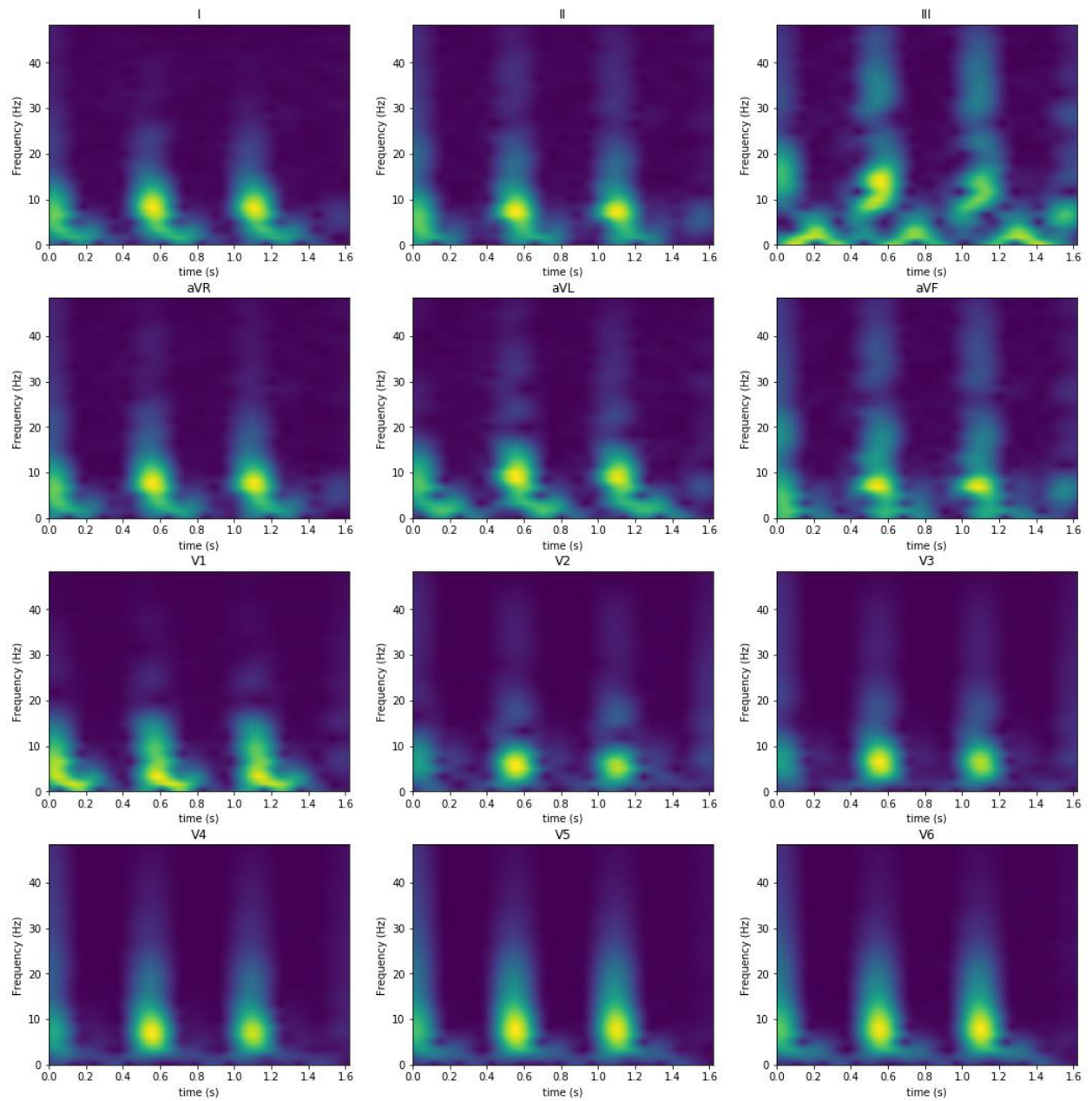
Supplementary Figure S 11. ECG waveform of LBBB patient



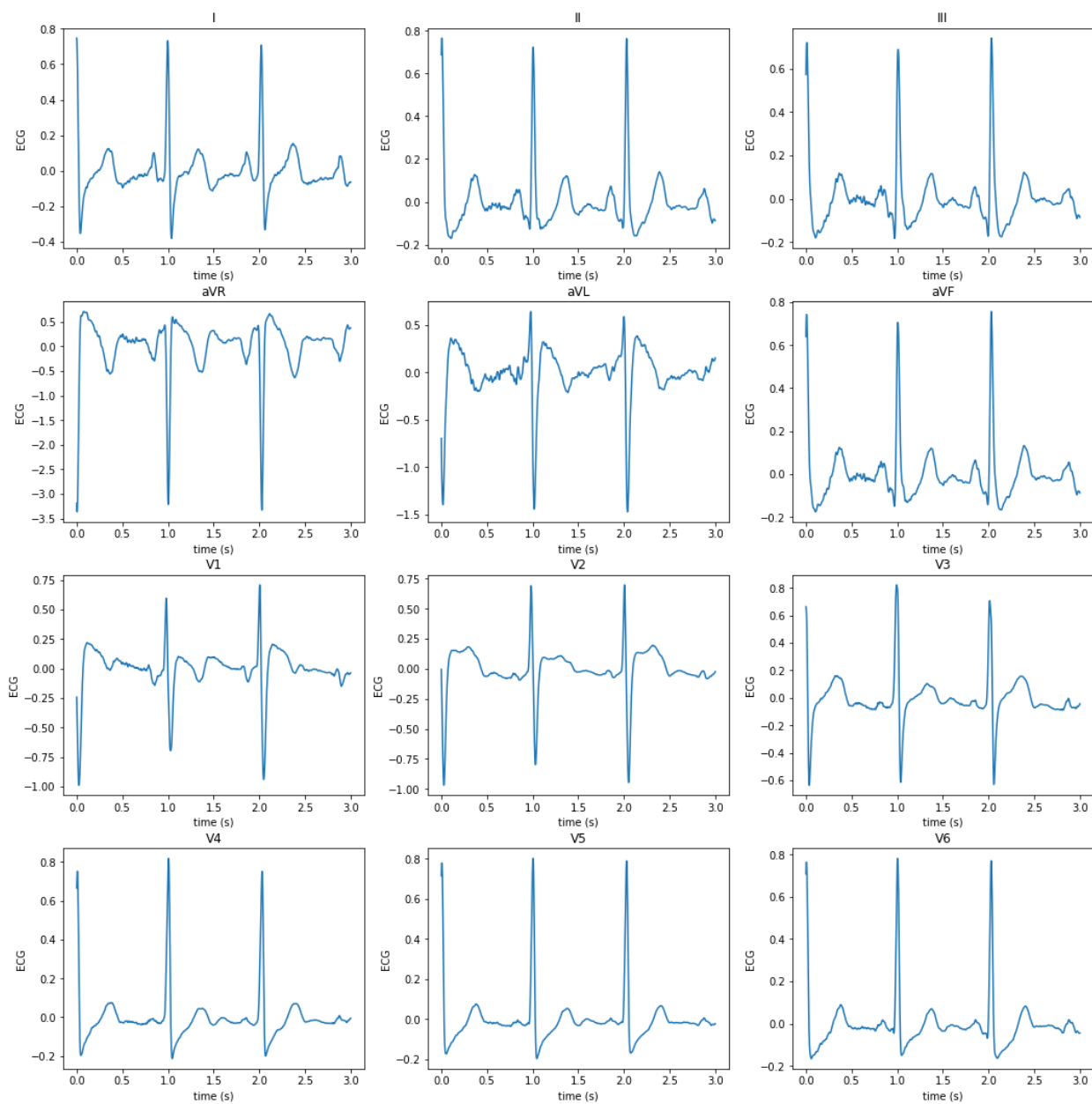
Supplementary Figure S 12. Time-frequency maps of LBBB patient



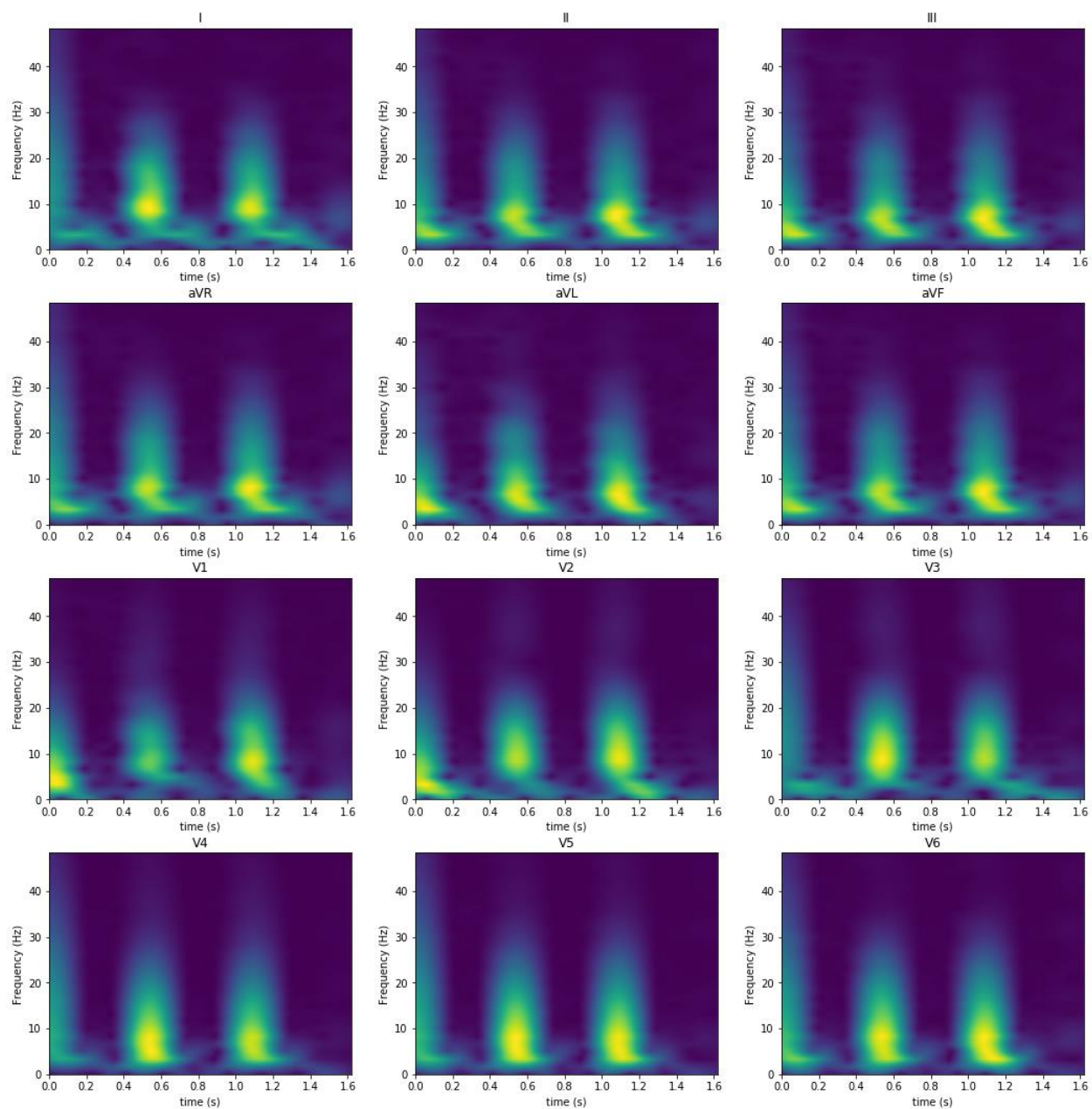
Supplementary Figure S 13. ECG waveform of RBBB patient



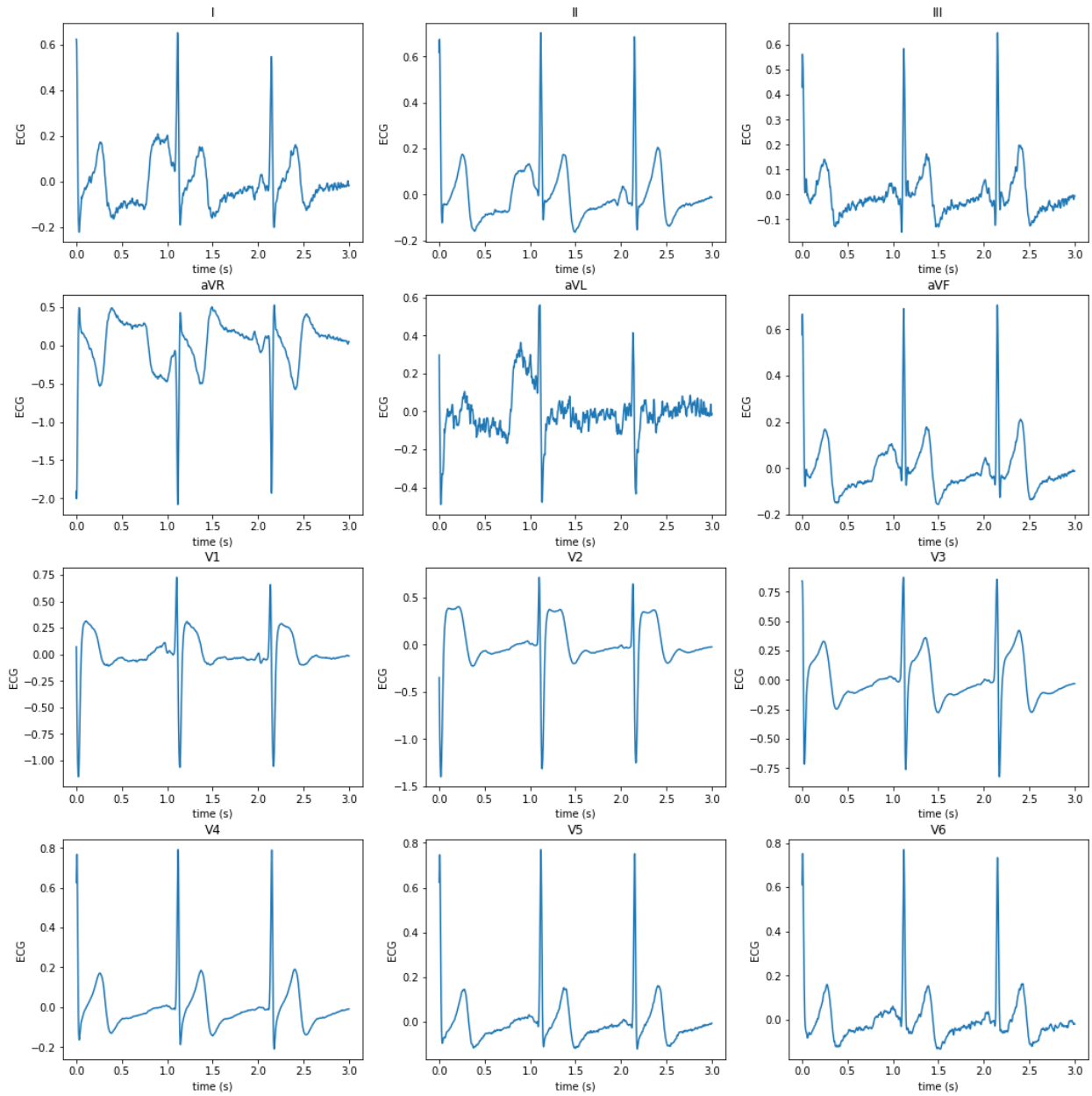
Supplementary Figure S 14. Time-frequency maps of RBBB patient



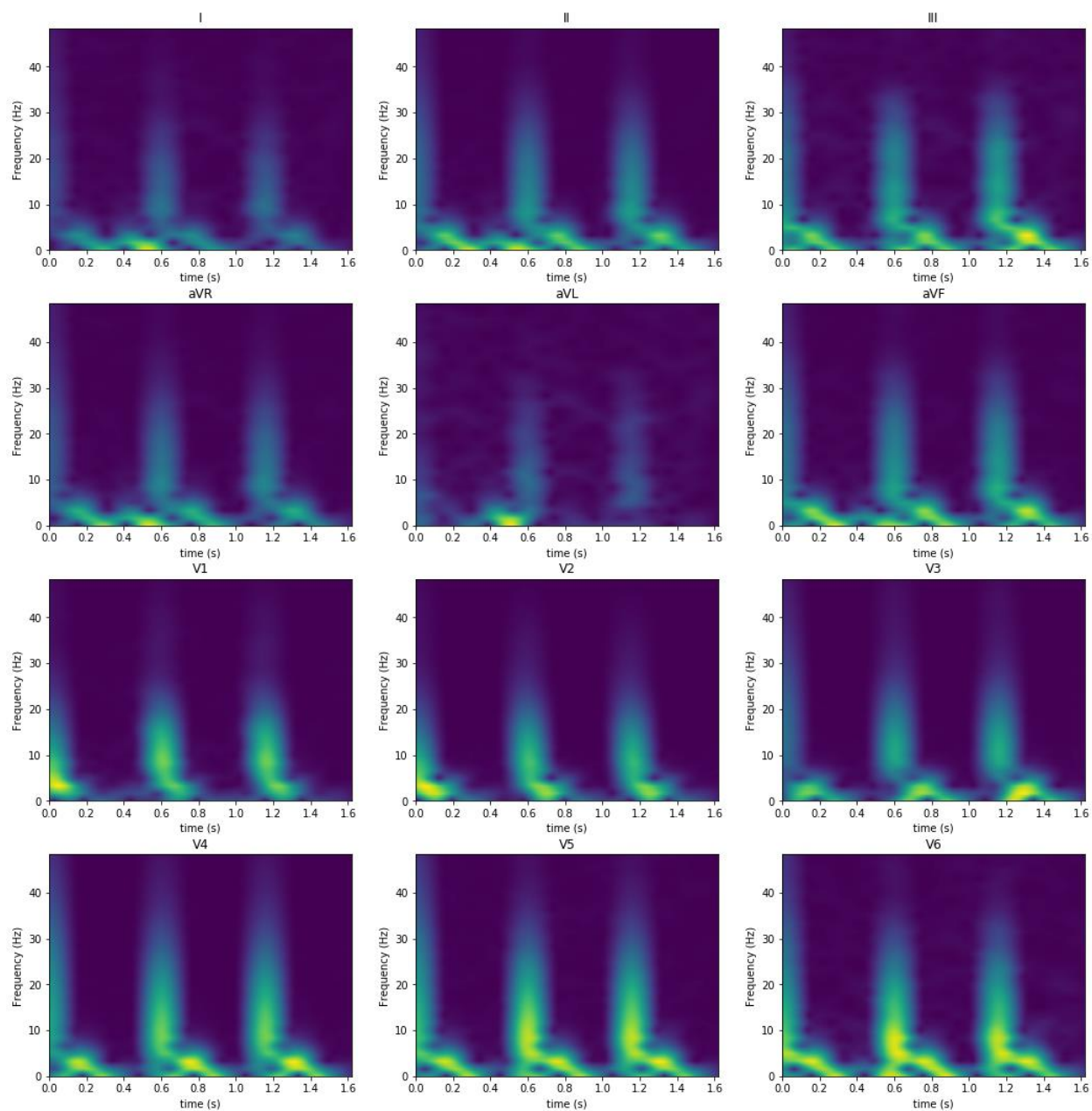
Supplementary Figure S 15. ECG waveform of STD patient



Supplementary Figure S 16. Time-frequency maps of STD patient



Supplementary Figure S 17. ECG waveform of STE patient



Supplementary Figure S 18. Time-frequency maps of STE patient