

Model Performance for SNR 6 dB			# Features	Block length (s)	Logistic regression	Fine tree	Medium tree	Coarse tree	Boosted trees ensemble	Bagged trees ensemble	Linear SVM	Quadratic SVM	Cubic SVM	Fine Gaussian SVM	Medium Gaussian SVM	Coarse Gaussian SVM	Subspace KNN	Neural Net	CNN	LSTM NN
	Cepstral	13	1		75.8%	83.1%	81.1%	75.6%	85.0%	86.8%	77.2%	87.3%	89.1%	85.7%	88.0%	80.4%				
	Cepstral	13	2		78.3%	85.2%	82.5%	76.3%	86.3%	88.2%	79.0%	89.5%	91.9%	88.6%	89.3%	80.5%		86.7%		
	Cepstral	26	1		78.0%	81.8%	78.9%	75.6%	85.0%	85.5%	79.0%	88.8%	89.7%	76.3%	88.1%	79.7%				
	Cepstral	26	2		80.2%	85.2%	81.4%	74.3%	85.9%	88.3%	80.4%	90.7%	92.8%	80.9%	90.3%	79.7%		92.5%		61.8%
	1/3 Octaves	29	1		70.7%	83.7%	80.2%	75.3%	85.1%	89.0%	70.3%	77.5%	81.2%	71.9%	75.4%	70.1%				
	1/3 Octaves	29	2		72.8%	87.5%	82.8%	77.3%	87.5%	91.9%	71.7%	79.7%	83.8%	76.6%	76.5%	71.5%		71.5%		
	Octaves	10	1		67.3%	82.0%	79.4%	72.7%	82.2%	86.3%	66.6%	76.4%	80.0%	78.0%	75.6%	66.8%				
	Octaves	10	2		67.8%	84.7%	80.6%	73.7%	84.2%	89.0%	66.5%	77.0%	81.2%	81.1%	76.8%	66.9%		77.4%		
	MFCC	13	2		76.3%	82.0%	78.2%	72.1%	83.5%	85.3%	76.8%	85.2%	87.4%	83.8%	87.0%	77.0%				
	MFCC	13	1		74.1%	80.4%	78.9%	68.8%	81.6%	82.9%	75.3%	83.0%	84.6%	80.5%	84.8%	76.4%		77.5%		
	FFT (25 Hz resolution)	799	0.041		61.3%	78.4%	75.8%	70.0%												
	FFT (100 Hz resolution)	200	0.01		68.3%	76.8%	74.0%	69.6%												
	CWT Scalogram	150528	1																92.9%	
	CWT Scalogram	150528	3																85.1%	
	CWT Scalogram	150528	5																83.3%	
	CWT Scalogram Bag of Features	500	1		81.0%	75.5%	74.2%	73.3%	82.1%	82.0%	83.1%	86.4%	87.1%	60.5%	86.1%	79.9%				
	CWT Scalogram Bag of Features	500	3		80.7%	73.2%	73.7%	75.3%	84.8%	82.7%	86.7%	87.7%	88.6%	59.1%	87.9%	81.6%				
	CWT Scalogram Bag of Features	500	5		55.0%	73.0%	74.1%	70.6%	82.3%	81.7%	88.0%	89.4%	90.9%	60.2%	87.7%	81.6%				
	DWT (Coiflet2, 4 levels)	17	1		64.1%	90.3%	86.5%	81.3%	89.5%	91.9%	77.1%	81.1%	51.6%	81.2%	77.6%	66.1%	70.7%			76.4%
	DWT (Coiflet2, 4 levels)	17	2		65.8%	90.2%	85.2%	80.7%	89.7%	92.6%	78.0%	82.9%	60.7%	81.4%	78.8%	73.5%	70.0%	88.1%		78.2%
	DWT (Coiflet2, 5 levels, Hampel Filter)	49	2		80.4%	91.7%	88.7%	79.3%		94.0%	82.0%	87.9%	--	87.6%	83.8%	76.8%	76.5%	95.9%		
	DWT (Coiflet2, 3 levels, Hampel Filter)	13	2		67.1%	89.7%	87.5%	78.1%	89.6%	92.9%	79.0%	84.4%	52.0%	85.9%	81.1%	76.5%	81.3%	93.9%		
	DWT (Debauchies4, 4 levels)	17	1		64.4%	90.1%	86.0%	81.1%	88.9%	91.6%	77.2%	80.6%	51.4%	81.5%	77.6%	66.1%	71.1%			
	DWT (Haar, 4 levels)	17	1		53.8%	77.0%	73.1%	68.7%	76.4%	80.5%	71.5%	76.4%	58.7%	76.1%	73.9%	70.4%	67.1%			
	DWT (Coiflet2, 4 levels, no entropy)	13	2		71.6%	90.6%	85.7%	81.6%	88.3%	92.1%	79.2%	57.1%	49.9%	76.3%	67.9%	61.0%	54.1%			
	DWT (Coiflet2, 2 levels)	7	2		70.1%	89.0%	84.6%	78.9%	88.2%	92.3%	68.8%	71.8%	53.9%	77.7%	74.0%	61.5%	73.7%			