NOTATIONS

P_{FA}	Probability of False Alarm
P_{MD}	Probability of Miss Detection
P_D	Probability of Detection
SNR	Signal to Noise Ratio
λ	Threshold
H_0	Null Hypothesis
H_1	Alternative Hypothesis
$L(\boldsymbol{y})$	Likelihood Ratio
$l(\boldsymbol{y})$	Log-likelihood Ratio
σ_n^2	Noise Variance
σ_s^2	Signal Variance
N	Number of Samples
$Q(.)$	Complementary Distribution Function of the Standard Gaussian
γ	SNR in dB
$R_x^\alpha(\tau)$	Cyclic Autocorrelation Function
$S_x^\alpha(f)$	Spectral Correlation Density
f	Spectral frequency
α	Cyclic Frequency
f_s	Sampling Frequency
Δf	Spectral Frequency Resolution
$\Delta \alpha$	Cyclic Frequency Resolution
$p(y_n\ H_1)$	PDF of y_n under H_1 Hypothesis
$p(y_n|H_0)$	PDF of y_n under H_0 Hypothesis