NOTATIONS IN BRIEF

The following are some national conventions used in this thesis:

$\int dt$	:	All integrals without limits imply integration from $-\infty$ to ∞, i.e., $\int_{-\infty}^{\infty} dt$ unless otherwise specified
$\partial(n)$	:	It refers to a sequence that is zero always except at $n = 1$ at where it is one
$\frac{\partial}{\partial x}$	:	Partial differentiation operator with respect to x
x^*	:	Complex conjugate of x
x^T	:	Transpose of matrix x
x^{-1}	:	Inverse of matrix x
$\lvert x \rvert$	:	Determinant of matrix x
$E[.]$	:	Expectation operator
$Re(.)$	:	Real part of the argument
$Im(.)$	:	Imaginary part of the argument
$ln(x)$	:	Natural logarithm of x
$f_{X;\Theta}(x;\theta)$	:	The notation expresses the dependency of the pdf of X on value of unknown parameter θ
$\binom{n}{p}$	:	Binomial coefficient $\frac{n!}{p!\,(n-p)!}$