LIST OF SYMBOLS

SYMBOL

D	Dimension
D_B	Dimension for box-counting method
D_{HM}	Dimension for Higuchi method
D_{HSEM}	Dimension for horizontal structuring element method
$D_{R/S}$	Dimension for rescale range analysis
D_v	Dimension for variation method
D_α	Dimension for scaling property of variance
E_k	Line segment of unit length
F	von Koch curve
H	Hurst exponent
$L(k)$	Length of each curve
N	Number of pieces
$N(\varepsilon_k)$	Number of pixels that covering the curve
R	Reduction factor
$R(\tau)$	Range
$S(\tau)$	Standard deviation
$U(\varepsilon)$	Total area (union) that covering the horizontal segment
V	Total area covered along the curve
k	Length of the horizontal segment
m	Number of initial time
$\max_{new}$	Average of maximum value
$\min_{new}$	Average of minimum value
t	Time
α	Order of the number of the time series signal
$\Delta\max$	Maximum value change
$\Delta\min$	Minimum value change
ε	Size of the pixels
$\xi(t)$	Time series data
$\langle\xi\rangle_\tau$	Average
σ	Variance of amplitude
τ	Length of time increment