List of Symbols

Symbol	Description
D	A training dataset with labeled MTS instances
\mathbf{D}_i	A training dataset with time series of i^{th} component
\mathbf{D}_{-i}	A training dataset consisting the MTS without i^{th} component
${\cal D}$	A training dataset with time series of any single component
l	Total number of class labels in training dataset
${f L}$	A set of l class labels as L_1, L_2, \cdots, L_l
N	Number of instances in a training dataset
N_i	Number of instances with class label L_i
${f C}^j$	j^{th} MTS instance in D
\mathcal{L}^{j}	Class label of \mathbf{C}^j and $\mathcal{L}^j \in \mathbf{L}$
n	Number of components in the MTS instance
\mathbf{C}_i^j	j^{th} time series instance of i^{th} component
M	Number of data points in a complete time series
m_i	Number of data points in time series of i^{th} component
λ_i	Sampling rate of i^{th} component
lpha	Desired level of accuracy
\mathcal{M}	Set of class-wise MRLs for all class labels
$\mathcal A$	Set of attributes obtained from \mathbf{D}
δ	Distance threshold matrix for \mathcal{A}
${\mathcal Z}$	Set of $l \times n$ attributes
ξ	Set of error thresholds learned for n components