List of Common Symbols

The following symbols have been used in the thesis:

X	Universal set
E	Set of parameters
$P(X)$	Set of all subsets of X
$\tilde{P}(X)$	Set of all fuzzy subsets of the set X
$\tilde{\tilde{P}}(X)$	Set of all intuitionistic fuzzy subsets of the set X
$P_L(X)$	Set of all linguistic valued subsets of the set X
$P_{Tr}(X)$	Set of all trapezoidal fuzzy subsets of the set X
$\tilde{P}_{Tr}(X)$	Set of all trapezoidal intuitionistic fuzzy subsets of the set X
$\tilde{P}_{\text{TrIT2}}(X)$	Set of all trapezoidal interval type-2 fuzzy subsets of the set X
$P_L(X)$	Set of all linguistic valued subsets of the set X
$\tilde{\rho}(X)$	Set of all complex fuzzy subsets of the set X
$\tilde{\tilde{\rho}}(X)$	Set of all complex neutrosophic subsets of the set X
(f, E)	Soft set
$(\tilde{f}, E)$	Fuzzy soft set
$(\tilde{\tilde{f}}, E)$	Intuitionistic fuzzy soft set
(F^L, E)	Linguistic valued soft set
(f_{Tr}, E)	Trapezoidal fuzzy soft set
$(\tilde{f}_{Tr}, E)$	Generalized trapezoidal intuitionistic fuzzy soft set
$(\tilde{f}_{\text{TrIT2}}, E)$	Trapezoidal interval type-2 fuzzy soft set
$(\tilde{\tilde{F}}, E)$	Complex fuzzy soft set
$(f_{\tilde{C}_N}, E)$	Complex neutrosophic soft set