LIST OF SYMBOLS

V(G)  Cyclomatic Number for a program control graph G

E     Number of edges in Graph

N     Number of Nodes

P     Number of connected components in graph G

eV(G)  Essential Complexity

N     Halstead Length content

N'    Estimated Halstead Length content

n_1   Number of distinct operators

n_2   Number of distinct operands

N_1   Total number of operators

N_2   Total number of operands

V     Halstead Volume metric

D     Halstead Difficulty

e     Halstead Effort

T     Halstead Programming time

a     Classifier predicts no defects and module actually has no error
b Classifier predicts no defects and module actually has error

c Classifier predicts some defects and module actually has no error

d Classifier predicts some defects and module actually has error

pd Probability of detection or recall

pf Probability of false alarm

prec Precision

wij Weight of link in neural network

θi Bias Parameter of ith neuron

yi Output of ith neuron

Δwij(n) Backpropagation algorithm weight correction

F(x) Fuzzy Bell membership function

MSE Mean Square Error

E Number of processing elements

N Number of examplars

O Output for examplar i at processing element j

Y Obtained output for examplar i at processing element j

Tanh(i) tanh activation function