LIST OF ABBREVIATIONS

AE : Acoustic Emission
ANN : Artificial Neural Networks
AS/RS : Automated storage and retrieval system
BP : Back-propagation
BMU : Best Matching Unit
BUE : Built-up edge
CIM : Computer Integrated Manufacturing
FMS : Flexible Manufacturing System
GCS : Growing Cell Structures
MLP : Multi-layer Perceptron
Lc : Sampling length
Lt : Tracing length
NN : Neural Networks
RAN : Resource Allocation Network
Ra : Arithmetic mean deviation from the mean line of the profile
RBF : Radial Basis Function Network
Rmax : Maximum Height of Irregularity
RMS : Root Mean Square
Rt : RMS value of the surface
Rz : Ten Point Heights of Irregularities
TCM : Tool Condition Monitoring
TCMS : Tool Condition Monitoring System
THM : Tool Health Monitoring
VBmax : Maximum width of the Flank wear
UCL : Upper Control Limit
X : Mean value