

LIST OF ABBREVIATIONS

Abbreviation	Full Form
BR	Bottom Right
CH	Cluster Head
CNDAKRS	Compromised Node Detection and Key Revocation Schemes
CO	Communication Overhead
CPS	Continuous Pairing Scheme
Cr	Current Round
CVL	Current Virtual Location
CVX	Current Virtual X
CVY	Current Virtual Y
DBS	Dynamic Cluster and Key Updating by Base Station
DEF	Dynamic Encryption Function
DESF	Dynamic Encryption Scheme to Achieve Forward and Backward Secrecy in Wireless Sensor Networks
DFP	Data Forwarding Process
FA	Folding Addition
FDX	Folding Addition of Decimal Parts for 'X' Locations in Initial and Current Virtual Locations
FDY	Folding Addition of Decimal Parts for 'Y' Locations in Initial and Current Virtual Locations
FDZ	Folding Addition of Folded Decimal Parts in Initial and Current Virtual Location (FDZ=FDX+FDY)
FIX	Folding Addition of Integer parts in 'X' Coordinates of Initial and Current Virtual Locations

FIY	Folding Addition of Integer parts in ‘Y’ Coordinates of Initial and Current Virtual Locations
FIZ	Folding Addition of Folded Integers Parts in Initial and Current Virtual Locations (FIZ=FIX+FIY)
IVL	Initial Virtual Location
KC _j	Cluster Key of j th Cluster
KEY	Key of Sensor Node
K _i	Key of i th Sensor
KMS	Key Management Scheme
KS	Key Security
KURCS	Key Updating Scheme for Removal & Replacement of Compromised Sensor
LB	Left Bottom
LSB	Least Significant Bit
MS	Memory Storage
MSB	Most Significant Bit
NOC	Number Of Clusters
PBES	Pairing Based Encoding Schemes
PS	Pairing Scheme
RDBS	Dynamic Clustering and Key Updating by Base Station
RMRB	Random Movement and Random Boundary
RMSB	Random Movement but Same Boundary
RO	Resource Overhead
RT	Right Top
SBS	Static Cluster and Key Updating by Base Station

SCG	Static Cluster and Key Updation by Cluster Guard
SMRB	Same Movement but Random Boundary
SMSB	Same Movement and Same Boundary
SPS	Skip Pairing Scheme
TL	Top Left
VA	Virtual Angle of Movement in Degree
VB	Virtual Boundary
VD	Current Virtual Direction of Movement
VL	Virtual Location
VL_{Cr}	Virtual Location (VX, VY) for Current Round
VL_{Cr-1}	Virtual Location (VX _{Cr-1} , VY _{Cr-1}) in Previous Round
VLKM	Virtual Location Based Key Management Scheme
VOX	Virtual Origin X
VOY	Virtual Origin Y
VS	Virtual Speed (Distance Covered by a Sensor in Moving a Single Round)
WSNs	Wireless Sensor Networks