LIST OF ABBREVIATION

ACK  Acknowledgement
AD   Actor Degree
AODV Adhoc On demand Distance Vector
BA   BAT Algorithm
BC   Best Candidate
CCN  Cognitive Cooperative Networks
CDS  Connected Dominating Set
CRR  Connectivity Restoration through node Re-arrangement
DFS  Depth first search
DCR  Detection and Connectivity Restoration
DE   Differential Evolutionary
DARA Distributed Actor Recovery Algorithm
DORMS Distributed algorithm for Optimized Relay node placement using Minimum Steiner tree
DD   Distributed Decision
DSR  Dynamic Source Routing
HS   harmony search
HVAC Heating, ventilating, and air conditioning
ID   Inter-actor Distance
LEDIR Least-Disruptive topologyRepair
MAC  Medium access control
MA   Multi-Actor
NNN  Nearest Non-critical Neighbor
NAS  Neighbor Actor Status
OLSR Optimized Link State Routing
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>PDR</td>
<td>Packet Delivery Ratio</td>
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<tr>
<td>PSO</td>
<td>Particle Swarm Optimization</td>
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<td>PADRA</td>
<td>Partition Detection and Recovery Algorithm</td>
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<tr>
<td>PCR</td>
<td>Partitioning detection and connectivity restoration</td>
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<td>QoS</td>
<td>Quality of Service</td>
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<td>SA</td>
<td>Single-Actor</td>
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<td>UAV</td>
<td>Unmanned Aerial Vehicles</td>
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<td>UDP</td>
<td>User datagram protocol</td>
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<tr>
<td>WSAN</td>
<td>Wireless sensor and actor networks</td>
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<tr>
<td>WSN</td>
<td>Wireless Sensor Networks</td>
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