**OUTPUT\_ANALYSIS**

**Parameters:**

**Communication radius=0.75**

**Area of observed region=100**

**Wormhole type=3**

**Wormhole radius=0.5**

**Endpoints\_minimum distance=6**

**Minimum root point distance(k)=7(minimum)**

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| **Deployment model** | **Communication**  **model** | **Threshold value(ꭕ)** | **Communication**  **Radius(r)** | **Average degree** | **Average no.of false positives** |
| Random | UDG | 4 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3 | 7  8  9  10  11  12  13 | 22  15  13  9  5  3  3 |
|  |  | 5 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3 | 7  8  9  10  11  12  13 | 16  10  9  6  3  2  1 |
|  |  | 6 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3 | 7  8  9  10  11  12  13 | 14  8  6  4  2  1  1 |

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| **Deployment model** | **Communication**  **model** | **Threshold value(ꭕ)** | **Communication**  **Radius(r)** | **Average degree** | **Average no.of false positives** |
| Random | QUDG | 4 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3 | 7  8  9  10  11  12  13 | 11  4.5  1.8  1.4  1.8  1.4  1.2 |
|  |  | 5 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3 | 7  8  9  10  11  12  13 | 7.2  3.9  1.6  1.3  1.3  1.0  0.5 |
|  |  | 6 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3 | 7  8  9  10  11  12  13 | 5.2  3.2  1.4  1.3  1.0  1.0  0.5 |

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| **Deployment model** | **Communication**  **model** | **Threshold value(ꭕ)** | **Communication**  **Radius(r)** | **Average degree** | **Average no.of false positives** |
| Grid | UDG | 4 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3  1.4  1.5 | 5.2  6  7  8  9  10  11  12  13 | 1.95  0.45  0.25  0.15  0.35  0.25  0.15  0.15  0.25 |
|  |  | 5 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3  1.4  1.5 | 5.2  6  7  8  9  10  11  12  13 | 1.35  0.25  0.15  0.10  0.25  0.15  0.10  0.10  0.20 |
|  |  | 6 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3  1.4  1.5 | 5.2  6  7  8  9  10  11  12  13 | 1.10  0.15  0.15  0.10  0.15  0.15  0.10  0.10  0.15 |

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| **Deployment model** | **Communication**  **model** | **Threshold value(ꭕ)** | **Communication**  **Radius(r)** | **Average degree** | **Average no.of false positives** |
| Grid | QUDG | 4 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3  1.4  1.5 | 5.2  6  7  8  9  10  11  12  13 | 1.5  0.1  0.3  0.1  0.4  0.1  0.2  0.1  0.25 |
|  |  | 5 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3  1.4  1.5 | 5.2  6  7  8  9  10  11  12  13 | 0.9  0.1  0.2  0.1  0.15  0.1  0.15  0.1  0.15 |
|  |  | 6 | 0.75  0.85  0.95  1.0  1.1  1.2  1.3  1.4  1.5 | 5.2  6  7  8  9  10  11  12  13 | 0.75  0.1  0.15  0.1  0.10  0.1  0.1  0.1  0.1 |