|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AVG\_LIFETIME |  | 600 | 800 | 1000 |
| special 800 | 1.2/1.2 | 24933 | 19031 | 14846 |
|  | 1.2/1.7 | 26621 | 18081 | 14652 |
|  | 1.2/1.6 | 31168 | 19313 | 15961 |
|  | 1.3/1.6 | 24926 | 18666 | 15881 |
|  | 1.3/1.7 | 27963 | 15451 | 14291 |
|  | 1.7/1.7 | 26931 | 18131 | 15431 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AVG\_LIFETIME |  | 600 | 800 | 1000 |
| Special2 800 | 1.2/1.2 |  |  |  |
|  | 1.2/1.7 |  |  |  |
|  | 1.2/1.6 |  |  |  |
|  | 1.3/1.6 |  |  |  |
|  | 1.3/1.7 |  |  |  |
|  | 1.7/1.7 |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CH數 | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal 600 | E-DSR |  |  |  |  |  |  |  |
|  | NRCA |  |  |  |  |  |  |  |
|  | Optimal LEACH |  |  |  |  |  |  |  |
|  | my |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CH數 | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| special 600 | E-DSR |  |  |  |  |  |  |  |
|  | NRCA |  |  |  |  |  |  |  |
|  | Optimal LEACH |  |  |  |  |  |  |  |
|  | my |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CH數 | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Special2 600 | E-DSR |  |  |  |  |  |  |  |
|  | NRCA |  |  |  |  |  |  |  |
|  | Optimal LEACH |  |  |  |  |  |  |  |
|  | my |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal | my | 56676 | 55156 | 53781 | 52068 | 46105 | 41586 | 40151 |
|  | AODV | 6673 | 5591.46 | 4596.63 | 4146.53 | 4057.13 | 3372.54 | 3256.85 |
|  | REBM | 49885 | 49225 | 47227 | 42769 | 40701 | 39991 | 39037 |

**5.1.1 Normal場景(平面)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal | my | 0.130734 | 0.131039 | 0.130904 | 0.130732 | 0.130926 | 0.131016 | 0.130804 |
|  | AODV | 0.299729 | 0.274907 | 0.270039 | 0.268483 | 0.266095 | 0.262236 | 0.261709 |
|  | REBM | 0.496266 | 0.531299 | 0.551583 | 0.577258 | 0.60297 | 0.645942 | 0.64688 |

**5.2.1 Special場景(平面)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| special | my | 0.128313 | 0.128299 | 0.128401 | 0.128653 | 0.128859 | 0.129184 | 0.128645 |
|  | AODV | 0.253588 | 0.249881 | 0.244133 | 0.240689 | 0.239225 | 0.237736 | 0.237745 |
|  | REBM | 0.52612 | 0.544533 | 0.566918 | 0.606926 | 0.629963 | 0.632597 | 0.657459 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| special | my | 68313 | 66272 | 63961 | 63571 | 61336 | 60301 | 56251 |
|  | AODV | 7103.63 | 6148.47 | 5327.17 | 4404.74 | 4280.09 | 3843.2 | 3548.26 |
|  | REBM | 57655 | 54715 | 54343 | 52939 | 50197 | 48511 | 48151 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Special2 | my |  |  |  |  |  |  |  |
|  | AODV |  |  |  |  |  |  |  |
|  | REBM |  |  |  |  |  |  |  |

**5.3.1 Special2場景(平面)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Special2 | my |  |  |  |  |  |  |  |
|  | AODV |  |  |  |  |  |  |  |
|  | REBM |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal 600 | E-DSR | 51906 | 50161 | 46891 | 42891 | 37891 | 33190 | 32134 |
|  | NRCA | 16081 | 7651 | 2731 | 861 | 751 | 621 | 601 |
|  | Optimal LEACH | 4941 | 4269 | 3431 | 3061 | 2671 | 2061 | 1961 |
|  | my | 58756 | 55072 | 51981 | 48061 | 43517 | 39453 | 36271 |

**5.1.2 Normal場景(600)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal 600 | E-DSR | 0.131609 | 0.131113 | 0.131273 | 0.131255 | 0.131246 | 0.131037 | 0.139279 |
|  | NRCA | 0.105656 | 0.105041 | 0.103753 | 0.102776 | 0.102285 | 0.103781 | 0.104178 |
|  | Optimal LEACH | 0.010039 | 0.009425 | 0.010057 | 0.010713 | 0.010122 | 0.009932 | 0.009925 |
|  | my | 0.130535 | 0.130659 | 0.130644 | 0.130875 | 0.130927 | 0.131616 | 0.131024 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| special 600 | E-DSR | 58701 | 57196 | 54819 | 54200 | 53075 | 51138 | 46662 |
|  | NRCA | 17821 | 12431 | 8321 | 4451 | 1131 | 1411 | 931 |
|  | Optimal LEACH | 5141 | 5001 | 4581 | 3251 | 2881 | 2311 | 1871 |
|  | my | 71691 | 67165 | 63206 | 62337 | 61441 | 59076 | 58427 |

**5.2.2 Special場景**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| special 600 | E-DSR | 0.12862 | 0.128665 | 0.130372 | 0.138328 | 0.148652 | 0.151859 | 0.156267 |
|  | NRCA | 0.104777 | 0.103796 | 0.103936 | 0.111436 | 0.123815 | 0.15978 | 0.18735 |
|  | Optimal LEACH | 0.010769 | 0.009782 | 0.009886 | 0.010085 | 0.010496 | 0.010014 | 0.01072 |
|  | my | 0.12837 | 0.128709 | 0.129053 | 0.12934 | 0.131687 | 0.135411 | 0.142558 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Special2 600 | E-DSR | 44949 | 36769 | 32172 | 29463 | 23971 | 15961 | 9361 |
|  | NRCA | 3901 | 811 | 731 | 551 | 511 | 511 | 501 |
|  | Optimal LEACH | 4121 | 4111 | 3541 | 2801 | 2581 | 2021 | 1821 |
|  | my | 48291 | 41991 | 37187 | 34995 | 30867 | 26445 | 23990 |

**5.3.2 Special2場景**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Special2 600 | E-DSR | 0.137954 | 0.137697 | 0.140003 | 0.1561 | 0.175857 | 0.172673 | 0.176368 |
|  | NRCA | 0.105288 | 0.105387 | 0.102245 | 0.100969 | 0.110317 | 0.174066 | 0.222228 |
|  | Optimal LEACH | 0.010974 | 0.009934 | 0.010458 | 0.01071 | 0.010381 | 0.010749 | 0.010318 |
|  | my | 0.137109 | 0.137348 | 0.137363 | 0.139143 | 0.141367 | 0.144443 | 0.149083 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal 400 | E-DSR | 56766 | 51170 | 49056 | 46541 | 45867 | 38761 | 29191 |
|  | NRCA | 12647 | 9281 | 1131 | 851 | 771 | 701 | 661 |
|  | Optimal LEACH | 4671 | 4531 | 3111 | 3361 | 3381 | 2091 | 1341 |
|  | my | 58681 | 55226 | 52977 | 49431 | 48618 | 45196 | 41002 |

**5.4 Normal場景(400)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Normal 400 | E-DSR | 0.131539 | 0.130618 | 0.131016 | 0.145591 | 0.161869 | 0.162526 | 0.164078 |
|  | NRCA | 0.104574 | 0.104482 | 0.104246 | 0.110309 | 0.10477 | 0.151406 | 0.218842 |
|  | Optimal LEACH | 0.010493 | 0.0098918 | 0.0107186 | 0.0098795 | 0.0130395 | 0.0131774 | 0.0187263 |
|  | my | 0.13069 | 0.13093 | 0.130513 | 0.131791 | 0.134985 | 0.140625 | 0.151189 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal 600 | E-DSR | 51906 | 50161 | 46891 | 42891 | 37891 | 33190 | 32134 |
|  | NRCA | 16081 | 7651 | 2731 | 861 | 751 | 621 | 601 |
|  | Optimal LEACH | 4941 | 4269 | 3431 | 3061 | 2671 | 2061 | 1961 |
|  | my | 58756 | 55072 | 51981 | 48061 | 43517 | 39453 | 36271 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal 600 | E-DSR | 0.131609 | 0.131113 | 0.131273 | 0.131255 | 0.131246 | 0.131037 | 0.139279 |
|  | NRCA | 0.105656 | 0.105041 | 0.103753 | 0.102776 | 0.102285 | 0.103781 | 0.104178 |
|  | Optimal LEACH | 0.010039 | 0.009425 | 0.010057 | 0.010713 | 0.010122 | 0.009932 | 0.009925 |
|  | my | 0.130535 | 0.130659 | 0.130644 | 0.130875 | 0.130927 | 0.131616 | 0.131024 |

**5.4 Normal場景(600)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Normal 800 | E-DSR | 53077 | 50864 | 47752 | 42841 | 37273 | 31774 | 28441 |
|  | NRCA | 15921 | 801 | 631 | 841 | 761 | 681 | 601 |
|  | Optimal LEACH | 5171 | 5081 | 3751 | 2681 | 2221 | 1881 | 1161 |
|  | my | 57966 | 56031 | 52701 | 50241 | 47228 | 42143 | 38277 |

**5.4 Normal場景(800)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PACKET LOSS RATE | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| normal 800 | E-DSR | 0.130818 | 0.130743 | 0.131032 | 0.13157 | 0.131081 | 0.130988 | 0.131417 |
|  | NRCA | 0.106964 | 0.104429 | 0.105349 | 0.10549 | 0.104875 | 0.102137 | 0.100531 |
|  | Optimal LEACH | 0.010482 | 0.010956 | 0.010498 | 0.010232 | 0.010152 | 0.009821 | 0.010208 |
|  | my | 0.131263 | 0.131023 | 0.131004 | 0.130929 | 0.131122 | 0.131294 | 0.131043 |

**5.5資料壓縮**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AVG\_LIFETIME | | 1 | 0.75 | 0.5 |
| normal 600 | E-DSR |  |  |  |
|  | NRCA |  |  |  |
|  | Optimal LEACH |  |  |  |
|  | my |  |  |  |