Smart Parking System

* The various methods or approaches used by different SPSs developers and their suitability towards different parking conditions
* The sensing tools used by SPSs alongside with their pros and cons
* Exhaustive review and classification of SPS according to various aspects such as networking technologies, user interfaces, computational approaches, and provided services.
* A comprehensive analysis by providing advantages and disadvantages of existing SPSs.
* Parking allocation has become a major problem in modern cities for which numerous smart parking systems (SPS) have been developed.
* This paper aims to provide comprehensive study, comparison and

**CheckedOut Time**

**EntryCamID**

# ExitCamID

|  |  |  |
| --- | --- | --- |
| 2017.11.17 16:06:09.647 | 1157006 |  |
| 2017.11.17 16:06:09.647 | 1157006 |
| 2017.11.17 14:56:08.581 | 1157006 |
| 2017.11.17 14:56:08.581 | 1157006 |
| 2017.11.17 14:56:05.248 | 1157006 | 1157006 |
| 2017.11.17 14:56:05.248 | 1157006 | 1157006 |
| 2017.11.17 15:56:08.581 | 1157006 |  |
| 2017.11.17 15:56:08.581 | 1157006 |  |
| 2017.11.17 15:56:08.581 | 1157006 |  |
| 2017.11.17 15:56:08.581 | 1157006 |  |
| 2/14/2018 13:03 | 1 | 2 |
| 2017.11.17 14:56:05.248 | 1157006 | 1157006 |
| 2/14/2018 13:03 | 1 | 2 |
| 2/14/2018 13:03 | 1 | 2 |
| 2/14/2018 13:03 | 1 | 2 |
| 2/14/2018 13:03 | 1 | 2 |
| 2017.11.17 16:06:09.647 | 1157006 |  |
| 2017.11.17 14:56:08.581 | 1157006 |  |
| 2/14/2018 13:03 | 1 | 2 |
| 2/14/2018 13:03 | 1 | 2 |
| 2017.11.17 16:06:09.647 | 1157006 |  |
| 2017.11.17 14:56:08.581 | 1157006 |  |

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| **Created\_At** | **Mobile** | **CheckedIn Time** |
| 2017.11.1717:36:08.718 |  |  |
| 2017.11.1717:36:08.718 |  |  |
| 2017.11.1717:36:08.718 |  |  |
| 2017.11.1717:36:08.718 |  |  |
| 2017.11.1717:36:08.581 |  |  |
| 2017.11.1717:36:08.718 |  |  |
| 2017.11.1717:36:08.581 |  |  |
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| 2017.11.1717:36:08.718 |  |  |
| 2017.11.1717:36:08.718 |  |  |
| 2017.11.1717:36:08.718 | 112233 | 2017.11.17 14:56:09.647 |
| 2017.11.1717:36:08.718 | 112233 | 2017.11.17 14:56:09.647 |
| 2017.11.1717:36:08.718 | 1234567890 | 2017.11.17 14:56:08.581 |
| 2017.11.1717:36:08.718 | 1234567890 | 2017.11.17 14:56:08.581 |
| 2017.11.1717:36:08.718 | 112233 | 2017.11.17 14:56:05.248 |
| 2018.02.19 17:56:08.718 | 112233 | 2017.11.17 14:56:05.248 |
| 2018.02.19 17:56:08.718 | 112233 | 2017.11.17 14:56:08.581 |
| 2018.02.19 17:56:08.718 | 112233 | 2017.11.17 14:56:08.581 |
| 2018.02.19 17:56:08.718 | 112233 | 2017.11.17 14:56:08.581 |
| 2018.02.19 17:56:08.718 | 112233 | 2017.11.17 14:56:08.581 |
| 2018.02.19 17:56:08.718 |  |  |
| 2018.02.19 17:56:08.718 |  |  |
| 2018.02.19 17:56:08.718 | 8807550969 | 2018.02.14 13:03:36:596 |
| 2018.02.19 17:56:08.718 |  |  |
| 2018.02.19 17:56:08.718 |  |  |
| 2018.02.19 17:56:08.718 | 112233 | 2017.11.17 14:56:05.248 |
| 2018.02.19 17:56:08.718 | 112233 | 2018.02.14 13:03:36.596 |
| 2017.11.1717:36:08.718 | 112233 | 2018.02.14 13:03:36.596 |
| 2017.11.1717:36:08.718 | 8807550969 | 2018.02.14 13:03:36.596 |
| 2017.11.1717:36:08.718 | 9985878021 | 2018.02.14 13:03:36.596 |
| 2017.11.1717:36:08.718 | 112233 | 2017.11.17 14:56:09.647 |
| 2017.11.1717:36:08.718 | 1234567890 | 2017.11.17 14:56:08.581 |
| 2017.11.1717:36:08.718 | 9985878021 | 2018.02.14 13:03:36.596 |
| 2017.11.1717:36:08.718 | 8807550969 | 2018.02.14 13:03:36.596 |
| 2017.11.1717:36:08.718 | 112233 | 2017.11.17 14:56:09.647 |
| 2017.11.1717:36:08.718 | 112233 | 2017.11.17 14:56:08.581 |

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| **Amount** | **Receipt\_No** | **Unique\_ID** |
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| 20 | rcpt\_AP 31 HY 1235 | 6.02202E+12 |
| 10 | rcpt\_AP 31 HY 1235 | 6.02202E+12 |
| 150 | rcpt\_06022018095808 | 6.02202E+12 |
| 50 | rcpt\_06022018095802 | 6.02202E+12 |
| 10 | rcpt\_AP 31 HY 1235 | 6.02202E+12 |
| 50 | rcpt\_06022018095802 | 6.02202E+12 |
| 20 | rcpt\_AP 31 HY 1235 | 6.02202E+12 |
| 20 | rcpt\_AP 31 HY 1235 | 6.02202E+12 |
| 5 | 6.02202E+12 | 6.02202E+12 |
| 10 | 6.02202E+12 | 6.02202E+12 |
| 0 | 6.02202E+12 | 6.02202E+12 |
| 9 | 6.02202E+12 | 6.02202E+12 |
| 4 | 6.02202E+12 | 6.02202E+12 |
| 30 | 1.4022E+13 | 1.4022E+11 |
| 10 | 1.4022E+13 | 1.4022E+11 |
| 5 | 6.02202E+12 | 6.02202E+12 |
| 5 | 6.02202E+12 | 6.02202E+12 |
| 1 | 6.02202E+12 | 6.02202E+12 |
| 1 | 6.02202E+12 | 6.02202E+12 |
| 20 | rcpt\_AP 31 HY 1235 | 6.02202E+12 |
| 20 | rcpt\_AP 31 HY 1235 | 6.02202E+12 |
| 10 | 1.4022E+13 | 1.40222E+11 |
| 10 | 6.02202E+12 | 1.40222E+11 |
| 2 | 6.02202E+12 | 1.40222E+11 |
| 10 | 1.4022E+13 | 6.02202E+12 |
| 4 | 1.4022E+13 | 6.02202E+12 |
| 10 | 1.4022E+13 | 6.02202E+12 |
| 50 | 1.4022E+13 | 6.02202E+12 |
| 15 | 1.4022E+13 | 6.02202E+12 |
| 20 | 6.02202E+12 | 6.02202E+12 |
| 4 | 6.02202E+12 | 6.02202E+12 |
| 15 | 1.4022E+13 | 6.02202E+12 |
| 10 | 1.4022E+13 | 6.02202E+12 |
| 0 | 6.02202E+12 | 1.4022E+11 |
| 2 | 6.02202E+12 | 1.40222E+11 |

**Car number** AP31HY1235 AP31HY1235 AP31HY1235 AP53UP3135 AP53UP3141 AP31HY1235 AP53UP3131 AP31HY1235 AP31HY1235 AP30CL4567 IND00UP1122 IND00UP1122 AP53UP3131 AP53UP3131 AP

AP AP30CL4567 AP30CL4567 AP30CL4567 AP30CL4567 AP31HY1235 AP31HY1235 AP35AF4234 AP30CL4567 AP30CL4567 AP IND00UP1122 IND00UP1122 AP35AF4234 AP35AF4234 IND00UP1122 AP53UP3131 AP35AF4234 AP35AF4234 IND00UP1122 AP30CL4567

# Payment\_ID

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payid\_AP 31 HY 1235 payid\_06022018095803 payid\_06022018095802 payid\_AP 31 HY 1235 payid\_06022018095802 payid\_AP 31 HY 1235

payid\_AP 31 HY 1235 6.02202E+12

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