**Report and Experiment**

**Code name:** bapso\_with\_halfsystem-V8.py

**Key points:**

1. Individual position is reinitialized.

position [i, j] is being reinitialized according to the conditions.

1. Individual velocity is reinitialized.

velocity [i, j] is being reinitialized according to the conditions.

1. di is not absolute value in the half system.
2. is present in the equation.

**Report:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Dataset name | Experiment no. | TP | FP | ACC | F-score |
| **Exp1.csv** | 1 | 6 | 10 | 0.7969 | 0.48 |
|  | 2 | 6 | 9 | 0.8125 | 0.50 |
|  | 3 | 5 | 11 | 0.7656 | 0.40 |
| **Exp2.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |
| **Exp3.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |
| **Exp4.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Dataset name | Experiment no. | TP | FP | ACC | F-score |
| **Exp1.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |
| **Exp2.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |
| **Exp3.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |
| **Exp4.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Dataset name | Experiment no. | TP | FP | ACC | F-score |
| **Exp1.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |
| **Exp2.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |
| **Exp3.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |
| **Exp4.csv** | 1 |  |  |  |  |
|  | 2 |  |  |  |  |
|  | 3 |  |  |  |  |