**Calibration of ADA for Small Instances**

|  |  |
| --- | --- |
| Parameter |  |
| Random movement S | 3,5,7,9 |
| Destruction size : d | 2,3,4,5,6 |
| Temperature factor : T1 | 1,2,3,4,5 |
| Temperature factor : T2 | 1,2,3,4,5 |

We have 500 combinations \* 5 replications \*162 Instances

**Analysis of Variance**

**Analysis of**

**Variance for RDI -**

**Type III Sums of**

**Squares**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Source* | *Sum of Squares* | *Df* | *Mean Square* | *F-Ratio* | *P-Value* |
| MAIN EFFECTS |  |  |  |  |  |
| A:S | 70851.8 | 3 | 23617.3 | 45.87 | 0.0000 |
| B:d | 2.65584E6 | 4 | 663961. | 1289.67 | 0.0000 |
| C:T1 | 244.302 | 4 | 61.0754 | 0.12 | 0.9759 |
| D:T2 | 29146.8 | 4 | 7286.69 | 14.15 | 0.0000 |
| INTERACTIONS |  |  |  |  |  |
| AB | 20918.9 | 12 | 1743.25 | 3.39 | 0.0001 |
| AC | 1976.73 | 12 | 164.727 | 0.32 | 0.9862 |
| AD | 10671.4 | 12 | 889.287 | 1.73 | 0.0545 |
| BC | 1924.16 | 16 | 120.26 | 0.23 | 0.9993 |
| BD | 19701.1 | 16 | 1231.32 | 2.39 | 0.0014 |
| CD | 2234.17 | 16 | 139.636 | 0.27 | 0.9982 |
| RESIDUAL | 2.08455E8 | 404900 | 514.83 |  |  |
| TOTAL (CORRECTED) | 2.11268E8 | 404999 |  |  |  |

All F-ratios are

based on the

residual mean

square error.

1. **Destruction reconstruction**

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d=5 is the better

1. **Random movement:**

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It is clear that we should set it 9

1. **Temperature factor 2: T2**

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It is clear that we should set it 5

**4-Temperature factor: T1**

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There is no big difference but T1= 4 look better