**Calibration of ADA for Small Instances**

|  |  |
| --- | --- |
| Parameter |  |
| Random movement S | 9,11, 13, 15 |
| Destruction size : d | 4,5,6,7,8 |
| Temperature factor : T1 | 2,3,4,5,6 |
| Temperature factor : T2 | 11,12,13,14,15 |

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

**Analysis of**

**Variance for RDI -**

**Type III Sums of**

**Squares**

**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 | 2384.12 | 3 | 794.707 | 1.55 | 0.1996 |
| B:d | 105644. | 4 | 26411.0 | 51.48 | 0.0000 |
| C:T1 | 385.782 | 4 | 96.4454 | 0.19 | 0.9448 |
| D:T2 | 10038.4 | 4 | 2509.6 | 4.89 | 0.0006 |
| INTERACTIONS |  |  |  |  |  |
| AB | 29028.5 | 12 | 2419.04 | 4.71 | 0.0000 |
| AC | 3965.18 | 12 | 330.432 | 0.64 | 0.8060 |
| AD | 8242.5 | 12 | 686.875 | 1.34 | 0.1883 |
| BC | 8122.56 | 16 | 507.66 | 0.99 | 0.4648 |
| BD | 6561.46 | 16 | 410.091 | 0.80 | 0.6881 |
| CD | 4611.22 | 16 | 288.201 | 0.56 | 0.9139 |
| RESIDUAL | 2.07736E8 | 404900 | 513.055 |  |  |
| TOTAL (CORRECTED) | 2.07915E8 | 404999 |  |  |  |

All F-ratios are

based on the

residual mean

square error.

1. **Destruction reconstruction**

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d=6 is the better

1. **Temperature factor 2: T2**

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It is clear that we should set it 11

1. **Random movement:**

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There is not big difference but 15 look better

**4-Temperature factor 1: T1**

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There is no big difference but T1= 6 look better