|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **AHP** | | | | | | | | | | | | | | | | |
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| Pembobotan (W) dengan AHP | | | | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **C1** | **C2** | **C3** | **C4** |  |  | **C1** | **C2** | **C3** | **C4** | **Jumlah** | **Eigen** |  |  |  |  |
| **C1** | 1.00 | 3.00 | 5.00 | 5.00 |  | **C1** | 0.58 | 0.65 | 0.54 | 0.38 | 2.15 | 0.54 |  |  |  |  |
| **C2** | 0.33 | 1.00 | 3.00 | 4.00 |  | **C2** | 0.19 | 0.22 | 0.32 | 0.31 | 1.04 | 0.26 |  |  |  |  |
| **C3** | 0.20 | 0.33 | 1.00 | 3.00 |  | **C3** | 0.12 | 0.07 | 0.11 | 0.23 | 0.53 | 0.13 |  |  |  |  |
| **C4** | 0.20 | 0.25 | 0.33 | 1.00 |  | **C4** | 0.12 | 0.05 | 0.04 | 0.08 | 0.28 | 0.07 |  |  |  |  |
| **Jumlah** | 1.73 | 4.58 | 9.33 | 13.00 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **MOORA** | | | | | | | | | | | | | | | | |
| **Tabel Penilaian Juri 1** | | | | |  | **Tabel Penilaian Juri 2** | | | | |  | **Tabel Penilaian Juri 3** | | | | |
| **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |
| **A1** | 85 | 76 | 80 | 83 |  | **A1** | 81 | 83 | 86 | 77 |  | **A1** | 75 | 87 | 81 | 85 |
| **A2** | 70 | 79 | 86 | 68 |  | **A2** | 76 | 78 | 79 | 83 |  | **A2** | 65 | 65 | 70 | 79 |
| **A3** | 87 | 89 | 68 | 90 |  | **A3** | 82 | 80 | 60 | 85 |  | **A3** | 85 | 79 | 76 | 82 |
| **Jumlah** | 140.34 | 141.20 | 135.72 | 140.05 |  | **Jumlah** | 138.06 | 139.19 | 131.29 | 141.57 |  | **Jumlah** | 130.67 | 134.29 | 131.29 | 142.09 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Matriks Ternormalisasi Terbobot 1** | | | | |  | **Matriks Ternormalisasi Terbobot 2** | | | | |  | **Matriks Ternormalisasi Terbobot 3** | | | | |
| **Bobot** | 0.54 | 0.26 | 0.13 | 0.07 |  | **Bobot** | 0.54 | 0.26 | 0.13 | 0.07 |  | **Bobot** | 0.54 | 0.26 | 0.13 | 0.07 |
| **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |
| **A1** | 0.61 | 0.54 | 0.59 | 0.59 |  | **A1** | 0.59 | 0.60 | 0.66 | 0.54 |  | **A1** | 0.57 | 0.65 | 0.62 | 0.60 |
| **A2** | 0.50 | 0.56 | 0.63 | 0.49 |  | **A2** | 0.55 | 0.56 | 0.60 | 0.59 |  | **A2** | 0.50 | 0.48 | 0.53 | 0.56 |
| **A3** | 0.62 | 0.63 | 0.50 | 0.64 |  | **A3** | 0.59 | 0.57 | 0.46 | 0.60 |  | **A3** | 0.65 | 0.59 | 0.58 | 0.58 |
| **Menghitung nilai optimasi multiobjektif 1** | | | | |  | **Menghitung nilai optimasi multiobjektif 2** | | | | |  | **Menghitung nilai optimasi multiobjektif 3** | | | | |
| **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |
| **A1** | 0.33 | 0.14 | 0.08 | 0.04 |  | **A1** | 0.32 | 0.15 | 0.09 | 0.04 |  | **A1** | 0.31 | 0.17 | 0.08 | 0.04 |
| **A2** | 0.27 | 0.15 | 0.08 | 0.03 |  | **A2** | 0.30 | 0.15 | 0.08 | 0.04 |  | **A2** | 0.27 | 0.13 | 0.07 | 0.04 |
| **A3** | 0.33 | 0.16 | 0.07 | 0.05 |  | **A3** | 0.32 | 0.15 | 0.06 | 0.04 |  | **A3** | 0.35 | 0.15 | 0.08 | 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Alternatif** | **Max** | **Min** | **Nilai** | **Ranking** |  | **Alternatif** | **Max** | **Min** | **Nilai** | **Ranking** |  | **Alternatif** | **Max** | **Min** | **Nilai** | **Ranking** |
| **A1** | 0.45 | 0.14 | 0.31 | 1 |  | **A1** | 0.44 | 0.15 | 0.29 | 1 |  | **A1** | 0.43 | 0.17 | 0.26 | 2 |
| **A2** | 0.39 | 0.15 | 0.24 | 3 |  | **A2** | 0.42 | 0.15 | 0.27 | 3 |  | **A2** | 0.38 | 0.13 | 0.25 | 3 |
| **A3** | 0.44 | 0.16 | 0.28 | 2 |  | **A3** | 0.42 | 0.15 | 0.27 | 2 |  | **A3** | 0.47 | 0.15 | 0.31 | 1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **BORDA** | | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Ranking** | **Bobot** | **DM 1** | **DM 2** | **DM 3** |  | **Hasil** |  |  |  |  |  |  |  |  |  |  |
| 1 | 3 | A1 | A1 | A3 |  | **A1** | 8 |  |  |  |  |  |  |  |  |  |
| 2 | 2 | A3 | A3 | A1 |  | **A3** | 7 |  |  |  |  |  |  |  |  |  |
| 3 | 1 | A2 | A2 | A2 |  | **A2** | 3 |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **AHP** | | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pembobotan (W) dengan AHP | | | | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **C1** | **C2** | **C3** | **C4** |  |  | **C1** | **C2** | **C3** | **C4** | **Jumlah** | **Eigen** |  |  |  |  |
| **C1** | 1.00 | 2.00 | 4.00 | 6.00 |  | **C1** | 0.52 | 0.55 | 0.48 | 0.46 | 2.01 | 0.50 |  |  |  |  |
| **C2** | 0.50 | 1.00 | 3.00 | 3.00 |  | **C2** | 0.26 | 0.27 | 0.36 | 0.23 | 1.12 | 0.28 |  |  |  |  |
| **C3** | 0.25 | 0.33 | 1.00 | 3.00 |  | **C3** | 0.13 | 0.09 | 0.12 | 0.23 | 0.57 | 0.14 |  |  |  |  |
| **C4** | 0.17 | 0.33 | 0.33 | 1.00 |  | **C4** | 0.09 | 0.09 | 0.04 | 0.08 | 0.29 | 0.07 |  |  |  |  |
| **Jumlah** | 1.92 | 3.67 | 8.33 | 13.00 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **MOORA** | | | | | | | | | | | | | | | | |
| **Tabel Penilaian Juri 1** | | | | |  | **Tabel Penilaian Juri 2** | | | | |  | **Tabel Penilaian Juri 3** | | | | |
| **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |
| **A1** | 86 | 72 | 85 | 81 |  | **A1** | 83 | 87 | 83 | 66 |  | **A1** | 86 | 67 | 76 | 86 |
| **A2** | 65 | 78 | 79 | 78 |  | **A2** | 77 | 81 | 89 | 81 |  | **A2** | 67 | 80 | 78 | 82 |
| **A3** | 75 | 81 | 89 | 80 |  | **A3** | 65 | 80 | 81 | 80 |  | **A3** | 82 | 82 | 84 | 84 |
| **Jumlah** | 131.32 | 133.53 | 146.24 | 138.00 |  | **Jumlah** | 130.55 | 143.28 | 146.19 | 131.59 |  | **Jumlah** | 136.41 | 132.71 | 137.54 | 145.52 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Matriks Ternormalisasi Terbobot 1** | | | | |  | **Matriks Ternormalisasi Terbobot 2** | | | | |  | **Matriks Ternormalisasi Terbobot 3** | | | | |
| **Bobot** | 0.50 | 0.28 | 0.14 | 0.07 |  | **Bobot** | 0.50 | 0.28 | 0.14 | 0.07 |  | **Bobot** | 0.50 | 0.28 | 0.14 | 0.07 |
| **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |
| **A1** | 0.65 | 0.54 | 0.58 | 0.59 |  | **A1** | 0.64 | 0.61 | 0.57 | 0.50 |  | **A1** | 0.63 | 0.50 | 0.55 | 0.59 |
| **A2** | 0.49 | 0.58 | 0.54 | 0.57 |  | **A2** | 0.59 | 0.57 | 0.61 | 0.62 |  | **A2** | 0.49 | 0.60 | 0.57 | 0.56 |
| **A3** | 0.57 | 0.61 | 0.61 | 0.58 |  | **A3** | 0.50 | 0.56 | 0.55 | 0.61 |  | **A3** | 0.60 | 0.62 | 0.61 | 0.58 |
| **Menghitung nilai optimasi multiobjektif 1** | | | | |  | **Menghitung nilai optimasi multiobjektif 2** | | | | |  | **Menghitung nilai optimasi multiobjektif 3** | | | | |
| **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |  | **ID** | **C1** | **C2** | **C3** | **C4** |
| **A1** | 0.33 | 0.15 | 0.08 | 0.04 |  | **A1** | 0.32 | 0.17 | 0.08 | 0.04 |  | **A1** | 0.32 | 0.14 | 0.08 | 0.04 |
| **A2** | 0.25 | 0.16 | 0.08 | 0.04 |  | **A2** | 0.30 | 0.16 | 0.09 | 0.05 |  | **A2** | 0.25 | 0.17 | 0.08 | 0.04 |
| **A3** | 0.29 | 0.17 | 0.09 | 0.04 |  | **A3** | 0.25 | 0.16 | 0.08 | 0.04 |  | **A3** | 0.30 | 0.17 | 0.09 | 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Alternatif** | **Max** | **Min** | **Nilai** | **Ranking** |  | **Alternatif** | **Max** | **Min** | **Nilai** | **Ranking** |  | **Alternatif** | **Max** | **Min** | **Nilai** | **Ranking** |
| **A1** | 0.46 | 0.15 | 0.30 | 1 |  | **A1** | 0.44 | 0.17 | 0.27 | 2 |  | **A1** | 0.44 | 0.14 | 0.30 | 1 |
| **A2** | 0.37 | 0.16 | 0.20 | 3 |  | **A2** | 0.43 | 0.16 | 0.27 | 1 |  | **A2** | 0.37 | 0.17 | 0.20 | 3 |
| **A3** | 0.42 | 0.17 | 0.25 | 2 |  | **A3** | 0.37 | 0.16 | 0.22 | 3 |  | **A3** | 0.43 | 0.17 | 0.26 | 2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **BORDA** | | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Ranking** | **Bobot** | **DM 1** | **DM 2** | **DM 3** |  | **Hasil** |  |  |  |  |  |  |  |  |  |  |
| 1 | 3 | A1 | A2 | A1 |  | **A1** | 8 |  |  |  |  |  |  |  |  |  |
| 2 | 2 | A3 | A1 | A3 |  | **A2** | 5 |  |  |  |  |  |  |  |  |  |
| 3 | 1 | A2 | A3 | A2 |  | **A3** | 5 |  |  |  |  |  |  |  |  |  |