Figure 2.7. A 4x4 Lattice

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |

Figure 2.8. A 16x16 spatial weight matrix without row standardization

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Neighbor j | | | | | | | | | | | | | | | |  |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |  |
| Observation i | 1 |  | 1 |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  | 3 |
| 2 | 1 |  | 1 |  | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  | 5 |
| 3 |  | 1 |  | 1 |  | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 5 |
| 4 |  |  | 1 |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  | 3 |
| 5 | 1 | 1 |  |  |  | 1 |  |  | 1 | 1 |  |  |  |  |  |  | 5 |
| 6 | 1 | 1 | 1 |  | 1 |  | 1 |  | 1 | 1 | 1 |  |  |  |  |  | 8 |
| 7 |  | 1 | 1 | 1 |  | 1 |  | 1 |  | 1 | 1 | 1 |  |  |  |  | 8 |
| 8 |  |  | 1 | 1 |  |  | 1 |  |  |  | 1 | 1 |  |  |  |  | 5 |
| 9 |  |  |  |  | 1 | 1 |  |  |  | 1 |  |  | 1 | 1 |  |  | 5 |
| 10 |  |  |  |  | 1 | 1 | 1 |  | 1 |  | 1 |  | 1 | 1 | 1 |  | 8 |
| 11 |  |  |  |  |  | 1 | 1 | 1 |  | 1 |  | 1 |  | 1 | 1 | 1 | 8 |
| 12 |  |  |  |  |  |  | 1 | 1 |  |  | 1 |  |  |  | 1 | 1 | 5 |
| 13 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  | 1 |  |  | 3 |
| 14 |  |  |  |  |  |  |  |  | 1 | 1 | 1 |  | 1 |  | 1 |  | 5 |
| 15 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 |  | 1 |  | 1 | 5 |
| 16 |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 |  | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Figure 2.9. A 16x16 spatial weight matrix with row standardization

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Neighbor j | | | | | | | | | | | | | | | |  |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |  |
| Observation i | 1 |  | **1/3** |  |  | **1/3** | **1/3** |  |  |  |  |  |  |  |  |  |  | **1** |
| 2 | **1/5** |  | **1/5** |  | **1/5** | **1/5** | **1/5** |  |  |  |  |  |  |  |  |  | **1** |
| 3 |  | **1/5** |  | **1/5** |  | **1/5** | **1/5** | **1/5** |  |  |  |  |  |  |  |  | **1** |
| 4 |  |  | **1/3** |  |  |  | **1/3** | **1/3** |  |  |  |  |  |  |  |  | **1** |
| 5 | **1/5** | **1/5** |  |  |  | **1/5** |  |  | **1/5** | **1/5** |  |  |  |  |  |  | **1** |
| 6 | **1/8** | **1/8** | **1/8** |  | **1/8** |  | **1/8** |  | **1/8** | **1/8** | **1/8** |  |  |  |  |  | **1** |
| 7 |  | **1/8** | **1/8** | **1/8** |  | **1/8** |  | **1/8** |  | **1/8** | **1/8** | **1/8** |  |  |  |  | **1** |
| 8 |  |  | **1/5** | **1/5** |  |  | **1/5** |  |  |  | **1/5** | **1/5** |  |  |  |  | **1** |
| 9 |  |  |  |  | **1/5** | **1/5** |  |  |  | **1/5** |  |  | **1/5** | **1/5** |  |  | **1** |
| 10 |  |  |  |  | **1/8** | **1/8** | **1/8** |  | **1/8** |  | **1/8** |  | **1/8** | **1/8** | **1/8** |  | **1** |
| 11 |  |  |  |  |  | **1/8** | **1/8** | **1/8** |  | **1/8** |  | **1/8** |  | **1/8** | **1/8** | **1/8** | **1** |
| 12 |  |  |  |  |  |  | **1/5** | **1/5** |  |  | **1/5** |  |  |  | **1/5** | **1/5** | **1** |
| 13 |  |  |  |  |  |  |  |  | **1/3** | **1/3** |  |  |  | **1/3** |  |  | **1** |
| 14 |  |  |  |  |  |  |  |  | **1/5** | **1/5** | **1/5** |  | **1/5** |  | **1/5** |  | **1** |
| 15 |  |  |  |  |  |  |  |  |  | **1/5** | **1/5** | **1/5** |  | **1/5** |  | **1/5** | **1** |
| 16 |  |  |  |  |  |  |  |  |  |  | **1/3** | **1/3** |  |  | **1/3** |  | **1** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |