# Data for testing Implicators

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a | b | 1-a | ab | 1-a+ab | 1-a+b | **Gaines**  **output** | **Goedel**  **output** | **KD output** | **reichenbach**  **output** | **Luk output** |
| 2.10 | 4.32 | - | - | - | - | - | - | - | - | - |
| -0.20 | -0.78 | - | - | - | - | - | - | - | - | - |
| 0.73 | 0.18 | 0.27 | 0.1314 | 0.4014 | 0.45 | 0.246575 | 0.18 | 0.27 | 0.4014 | 0.45 |
| 0.18 | 0.73 | 0.82 | 0.1314 | 0.9514 | 1.55 | 1.0 | 1.0 | 0.82 | 0.9514 | 1.00 |
| 0.88 | 0.88 | 0.12 | 0.7744 | 0.8914 | 1.00 | 1.0 | 1.0 | 0.88 | 0.8944 | 1.00 |
| 0.91 | 0.48 | 0.09 | 0.4368 | 0.5263 | 0.57 | 0.527473 | 0.48 | 0.48 | 0.5268 | 0.57 |
| 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.0 | 1.0 | 1.00 | 1.00 | 1.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.0 | 1.0 | 1.00 | 1.00 | 1.00 |

# Data for testing t-norms in a scalar way

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a | b | ab | a+b | a+b-1 |  |  | **Min tnorm** | **Product tnorn** | **Lukasiewicz tnorm** |  |
| 2.10 | 4.32 | - |  |  |  |  | - | - |  |  |
| -0.20 | -0.78 | - |  |  |  |  | - | - |  |  |
| 0.73 | 0.18 | 0.1314 |  |  |  |  | 0.18 | 0.1314 |  |  |
| 0.18 | 0.73 | 0.1314 |  |  |  |  | 0.18 | 0.1314 |  |  |
| 0.88 | 0.88 | 0.7744 |  |  |  |  | 0.88 | 0.7744 |  |  |
| 0.91 | 0.48 | 0.4368 |  |  |  |  | 0.48 | 0.4368 |  |  |
| 1.00 | 1.00 | 1.00 |  |  |  |  | 1.00 | 1.00 |  |  |
| 0.00 | 0.00 | 0.00 |  |  |  |  | 0.00 | 0.00 |  |  |

# Data for testing t-norms in a map/vectorized way

Similarity map

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0 | 0.2673 | 0.25456 | 0.1197 | 0.09504 |
| 0.2673 | 1.0 | 0.0658 | 0.1624 | 0.054 |
| 0.25456 | 0.0658 | 1.0 | 0.3157 | 0.53217 |
| 0.1197 | 0.1624 | 0.3157 | 1.0 | 0.53872 |
| 0.09504 | 0.054 | 0.53217 | 0.53872 | 1.0 |

Mask map

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0 | 1.0 | 0.0 | 1.0 | 0.0 |
| 1.0 | 1.0 | 0.0 | 1.0 | 0.0 |
| 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| 1.0 | 1.0 | 0.0 | 1.0 | 0.0 |
| 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |

Output of minimum tnorm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0 | 0.2673 | 0.0 | 0.1197 | 0.0 |
| 0.2673 | 1.0 | 0.0 | 0.1624 | 0.0 |
| 0.0 | 0.0 | 1.0 | 0.0 | 0.53217 |
| 0.1197 | 0.1624 | 0.0 | 1.0 | 0.0 |
| 0.0 | 0.0 | 0.53217 | 0.0 | 1.0 |

# XXXXXXXXXXXXXXXXXXXX

 label\_mask\_calc

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1.0 | 1.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| 1.0 | 1.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 |
| 1.0 | 1.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 |

        sim\_matrix\_calc

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0 | 0.2673 | 0.25456 | 0.1197 | 0.09504 |
| 0.2673 | 1.0 | 0.0658 | 0.1624 | 0.054 |
| 0.25456 | 0.0658 | 1.0 | 0.3157 | 0.53217 |
| 0.1197 | 0.1624 | 0.3157 | 1.0 | 0.53872 |
| 0.09504 | 0.054 | 0.53217 | 0.53872 | 1.0 |