**Supplemental File B**

Table B.1

Fuzzy EDM of Three Experts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **E1** | | | | | |
| **Features** | **Numerical**  **Values ()** | **NWHFEs** | | | |
| **HFEs ()** | **NWE ()** | | |
|  |  |  |
| F1 | 3 | (0.4,0.5,0.6) | (0.3614, 0.4184, 0.5614) | (0.4000,0.5000,0.6000) | (0.4386,0.5816,0.6386) |
| F2 | 5 | (0.8,0.9,0.99) | (0.7643,0.8225,0.9523) | (0.8025,0.9055,0.9927) | (0.8357,0.9775,1.0000) |
| F3 | 2 | (0.2,0.3,0.4) | (0.1614,0.2184,0.3614) | (0.1914,0.2819,0.3914) | (0.2386,0.3816,0.4386) |
| F4 | 3 | (0.4,0.5,0.6) | (0.3614,0.4184,0.5614) | (0.4000,0.5000,0.6000) | (0.4386,0.5816,0.6386) |
| F5 | 4 | (0.6,0.7,0.8) | (0.5614,0.6184,0.7614) | (0.6037,0.7078,0.8037) | (0.6386,0.7816,0.8386) |
| F6 | 4 | (0.6,0.7,0.8) | (0.5614,0.6184,0.7614) | (0.6037,0.7078,0.8037) | (0.6386,0.7816,0.8386) |
| F7 | 5 | (0.8,0.9,0.99) | (0.7643,0.8225,0.9523) | (0.8025,0.9055,0.9927) | (0.8357,0.9775,1.0000) |
| **E2** | | | | | |
| **Features** | **Numerical**  **Values ()** | **NWHFEs** | | | |
| **HFEs ()** | **NWE ()** | | |
|  |  |  |
| F1 | 2 | (0.2,0.3,0.4) | (0.1614,0.2184,0.3614) | (0.1914,0.2819,0.3914) | (0.2386,0.3816,0.4386) |
| F2 | 5 | (0.8,0.9,0.99) | (0.7643,0.8225,0.9523) | (0.8025,0.9055,0.9927) | (0.8357,0.9775,1.0000) |
| F3 | 1 | (0.1,0.15,0.2) | (0.0807,0.1092,0.1807) | (0.0957,0.1409,0.1957) | (0.1193,0.1908,0.2193) |
| F4 | 3 | (0.4,0.5,0.6) | (0.3614, 0.4184, 0.5614) | (0.4000,0.5000,0.6000) | (0.4386,0.5816,0.6386) |
| F5 | 4 | (0.6,0.7,0.8) | (0.5614,0.6184,0.7614) | (0.6037,0.7078,0.8037) | (0.6386,0.7816,0.8386) |
| F6 | 4 | (0.6,0.7,0.8) | (0.5614,0.6184,0.7614) | (0.6037,0.7078,0.8037) | (0.6386,0.7816,0.8386) |
| F7 | 4 | (0.6,0.7,0.8) | (0.5614,0.6184,0.7614) | (0.6037,0.7078,0.8037) | (0.6386,0.7816,0.8386) |
| **E3** | | | | | |
| **Features** | **Numerical**  **Values ()** | **NWHFEs** | | | |
| **HFEs ()** | **NWE ()** | | |
|  |  |  |
| F1 | 2 | (0.2,0.3,0.4) | (0.1614,0.2184,0.3614) | (0.1914,0.2819,0.3914) | (0.2386,0.3816,0.4386) |
| F2 | 5 | (0.8,0.9,0.99) | (0.7643,0.8225,0.9523) | (0.8025,0.9055,0.9927) | (0.8357,0.9775,1.0000) |
| F3 | 1 | (0.1,0.15,0.2) | (0.0807,0.1092,0.1807) | (0.0957,0.1409,0.1957) | (0.1193,0.1908,0.2193) |
| F4 | 3 | (0.4,0.5,0.6) | (0.3614, 0.4184, 0.5614) | (0.4000,0.5000,0.6000) | (0.4386,0.5816,0.6386) |
| F5 | 3 | (0.4,0.5,0.6) | (0.3614, 0.4184, 0.5614) | (0.4000,0.5000,0.6000) | (0.4386,0.5816,0.6386) |
| F6 | 4 | (0.6,0.7,0.8) | (0.5614,0.6184,0.7614) | (0.6037,0.7078,0.8037) | (0.6386,0.7816,0.8386) |
| F7 | 4 | (0.6,0.7,0.8) | (0.5614,0.6184,0.7614) | (0.6037,0.7078,0.8037) | (0.6386,0.7816,0.8386) |

Table B.2

Initial decision matrix

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Evaluation features/6G frameworks based blockchain technology | F1 | F2 | F3 | F4 | F5 | F6 | F7 |
| A1 | 1 | 3 | 1 | 1 | 1 | 3 | 3 |
| A2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 |
| A3 | 2 | 3 | 2 | 1 | 1 | 3 | 3 |
| A4 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| A5 | 2 | 3 | 2 | 1 | 2 | 3 | 3 |
| A6 | 3 | 2 | 3 | 1 | 3 | 3 | 3 |
| A7 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| A8 | 2 | 2 | 3 | 1 | 3 | 3 | 3 |
| A9 | 1 | 2 | 2 | 3 | 2 | 3 | 3 |
| A10 | 2 | 2 | 3 | 1 | 3 | 3 | 3 |

Table B.3

New features weights and values for sensitivity analysis

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Evaluation features/Scenarios | F1 | F2 | F3 | F4 | F5 | F6 | F7 |
| Original Weights | 0.0235 | 0.4653 | 0.0156 | 0.0400 | 0.0700 | 0.1335 | 0.2522 |
| S1 | 0.0439 | 0.0000 | 0.0292 | 0.0747 | 0.1308 | 0.2496 | 0.4717 |
| S2 | 0.0384 | 0.1250 | 0.0256 | 0.0654 | 0.1145 | 0.2184 | 0.4127 |
| S3 | 0.0329 | 0.2500 | 0.0219 | 0.0561 | 0.0981 | 0.1872 | 0.3538 |
| S4 | 0.0274 | 0.3750 | 0.0183 | 0.0467 | 0.0818 | 0.1560 | 0.2948 |
| S5 | 0.0219 | 0.5000 | 0.0146 | 0.0374 | 0.0654 | 0.1248 | 0.2358 |
| S6 | 0.0165 | 0.6250 | 0.0110 | 0.0280 | 0.0491 | 0.0936 | 0.1769 |
| S7 | 0.0110 | 0.7500 | 0.0073 | 0.0187 | 0.0327 | 0.0624 | 0.1179 |
| S8 | 0.0055 | 0.8750 | 0.0037 | 0.0093 | 0.0164 | 0.0312 | 0.0590 |
| S9 | 0.0000 | 0.9999 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| values | 0.0439 | 0.8701 | 0.0292 | 0.0747 | 0.1308 | 0.2496 | 0.4717 |