**Supplemental Materials**

Table 1: decision-makers matrix with numerical values.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Criteria | C1 | C2 | C3 | C4 | C5 | C6 |
| Decision-maker1 | 5 | 4 | 3 | 2 | 1 | 2 |
| Decision-maker2 | 5 | 3 | 3 | 3 | 1 | 2 |
| Decision-maker3 | 5 | 4 | 2 | 2 | 1 | 1 |

Table 2: Fuzzified decision matrix of three decision-makers

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Criteria | T2PFN | Decision-maker1 | Decision-maker2 | Decision-maker3 | Aggregation |
| C1 | mu | 0.9 | 0.9 | 0.9 | 0.9 |
| f | 0.9 | 0.9 | 0.9 | 0.9 |
| g | 0.4 | 0.4 | 0.4 | 0.4 |
| nu | 0.1 | 0.1 | 0.1 | 0.1 |
| F | 0.5 | 0.5 | 0.5 | 0.5 |
| G | 0.1 | 0.1 | 0.1 | 0.1 |
| C2 | mu | 0.8 | 0.5 | 0.8 | 0.8 |
| f | 0.8 | 0.5 | 0.8 | 0.8 |
| g | 0.4 | 0.5 | 0.4 | 0.4 |
| nu | 0.3 | 0.5 | 0.3 | 0.3 |
| F | 0.7 | 0.5 | 0.7 | 0.7 |
| G | 0.2 | 0.5 | 0.2 | 0.2 |
| C3 | mu | 0.5 | 0.5 | 0.3 | 0.5 |
| f | 0.5 | 0.5 | 0.2 | 0.5 |
| g | 0.5 | 0.5 | 0.7 | 0.5 |
| nu | 0.5 | 0.5 | 0.8 | 0.5 |
| F | 0.5 | 0.5 | 0.4 | 0.5 |
| G | 0.5 | 0.5 | 0.8 | 0.5 |
| C4 | mu | 0.3 | 0.5 | 0.3 | 0.3 |
| f | 0.2 | 0.5 | 0.2 | 0.2 |
| g | 0.7 | 0.5 | 0.7 | 0.7 |
| nu | 0.8 | 0.5 | 0.8 | 0.8 |
| F | 0.4 | 0.5 | 0.4 | 0.4 |
| G | 0.8 | 0.5 | 0.8 | 0.8 |
| C5 | mu | 0.1 | 0.1 | 0.1 | 0.1 |
| f | 0.1 | 0.1 | 0.1 | 0.1 |
| g | 0.5 | 0.5 | 0.5 | 0.5 |
| nu | 0.9 | 0.9 | 0.9 | 0.9 |
| F | 0.4 | 0.4 | 0.4 | 0.4 |
| G | 0.9 | 0.9 | 0.9 | 0.9 |
| C6 | mu | 0.3 | 0.3 | 0.1 | 0.3 |
| f | 0.2 | 0.2 | 0.1 | 0.2 |
| g | 0.7 | 0.7 | 0.5 | 0.7 |
| nu | 0.8 | 0.8 | 0.9 | 0.8 |
| F | 0.4 | 0.4 | 0.4 | 0.4 |
| G | 0.8 | 0.8 | 0.9 | 0.8 |

Table 3: Percentage decision matrix of the three decision-makers.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Decision-maker1 | | | | | | | | Decision-maker2 | | | | | | | | Decision-maker3 | | | | | | | |
| IoMRTs/Criteria | C1 | C2 | C3 | C4 | C5 | C6 | IoMRT/Criteria | | C1 | C2 | C3 | C4 | C5 | C6 | IoMRT/Criteria | | C1 | C2 | C3 | C4 | C5 | C6 |
| IoMRT1 | 0.75 | 0.6 | 0.9 | 0.8 | 0.6 | 0.8 | IoMRT1 | | 0.6 | 0.8 | 0.75 | 0.7 | 0.75 | 0.9 | IoMRT1 | | 0.7 | 0.85 | 0.85 | 0.85 | 0.9 | 0.6 |
| IoMRT2 | 0.85 | 0.9 | 1 | 0.95 | 0.9 | 0.85 | IoMRT2 | | 0.55 | 0.7 | 0.7 | 0.9 | 0.55 | 1 | IoMRT2 | | 0.85 | 0.6 | 0.65 | 0.55 | 0.75 | 0.65 |
| IoMRT3 | 0.6 | 0.6 | 1 | 0.95 | 0.75 | 0.95 | IoMRT3 | | 0.85 | 0.8 | 0.6 | 0.6 | 0.7 | 0.65 | IoMRT3 | | 0.65 | 0.65 | 0.8 | 0.85 | 0.7 | 0.6 |
| IoMRT4 | 0.8 | 0.8 | 0.55 | 0.55 | 0.85 | 0.7 | IoMRT4 | | 0.55 | 0.65 | 0.6 | 0.55 | 0.7 | 0.95 | IoMRT4 | | 0.9 | 0.65 | 0.6 | 0.75 | 0.55 | 0.7 |
| IoMRT5 | 0.85 | 0.65 | 1 | 0.9 | 1 | 0.9 | IoMRT5 | | 0.6 | 0.6 | 0.95 | 0.8 | 0.65 | 0.65 | IoMRT5 | | 0.9 | 0.6 | 0.75 | 0.7 | 0.65 | 0.6 |
| IoMRT6 | 0.55 | 0.75 | 0.6 | 1 | 0.7 | 0.6 | IoMRT6 | | 0.85 | 0.85 | 0.8 | 0.85 | 0.95 | 0.95 | IoMRT6 | | 1 | 0.7 | 0.55 | 0.8 | 0.8 | 0.95 |
| IoMRT7 | 0.75 | 1 | 1 | 0.75 | 0.55 | 0.55 | IoMRT7 | | 0.8 | 0.85 | 1 | 0.8 | 0.75 | 0.95 | IoMRT7 | | 0.75 | 0.95 | 0.65 | 0.9 | 0.75 | 1 |
| IoMRT8 | 0.95 | 0.65 | 0.8 | 0.55 | 0.9 | 0.7 | IoMRT8 | | 0.8 | 0.9 | 1 | 1 | 0.95 | 0.8 | IoMRT8 | | 0.75 | 0.65 | 0.65 | 0.95 | 1 | 0.65 |
| IoMRT9 | 0.6 | 0.55 | 0.65 | 0.65 | 0.7 | 0.95 | IoMRT9 | | 0.95 | 0.7 | 0.75 | 0.85 | 0.9 | 0.75 | IoMRT9 | | 0.8 | 0.9 | 0.8 | 0.7 | 0.55 | 0.9 |
| IoMRT10 | 0.75 | 1 | 0.55 | 0.9 | 0.8 | 0.7 | IoMRT10 | | 0.9 | 0.65 | 0.7 | 0.8 | 0.65 | 0.95 | IoMRT10 | | 0.95 | 0.8 | 0.65 | 0.7 | 0.75 | 0.55 |
| IoMRT11 | 0.85 | 0.85 | 0.7 | 0.55 | 0.6 | 1 | IoMRT11 | | 0.8 | 0.7 | 0.65 | 0.65 | 0.55 | 0.55 | IoMRT11 | | 0.55 | 0.8 | 0.7 | 0.7 | 0.8 | 0.85 |
| IoMRT12 | 0.65 | 0.8 | 0.95 | 0.75 | 0.55 | 0.85 | IoMRT12 | | 0.65 | 0.7 | 0.75 | 0.55 | 0.55 | 0.8 | IoMRT12 | | 0.6 | 0.9 | 0.9 | 0.85 | 0.6 | 0.85 |
| IoMRT13 | 1 | 0.8 | 0.55 | 0.8 | 0.6 | 0.7 | IoMRT13 | | 0.6 | 1 | 0.65 | 0.9 | 0.85 | 0.85 | IoMRT13 | | 1 | 0.9 | 0.75 | 0.95 | 0.8 | 0.55 |
| IoMRT14 | 0.85 | 0.6 | 0.7 | 1 | 0.95 | 1 | IoMRT14 | | 0.95 | 0.9 | 0.75 | 0.6 | 0.75 | 0.9 | IoMRT14 | | 1 | 1 | 0.55 | 0.9 | 0.95 | 0.55 |
| IoMRT15 | 0.65 | 1 | 0.6 | 0.65 | 0.7 | 0.95 | IoMRT15 | | 1 | 0.65 | 0.75 | 0.65 | 1 | 0.65 | IoMRT15 | | 0.75 | 0.6 | 0.7 | 0.95 | 0.6 | 0.6 |
| IoMRT16 | 0.8 | 0.7 | 0.6 | 0.6 | 0.7 | 0.95 | IoMRT16 | | 1 | 0.85 | 0.65 | 0.65 | 0.75 | 0.55 | IoMRT16 | | 0.95 | 0.9 | 0.75 | 0.95 | 0.6 | 0.95 |
| IoMRT17 | 0.95 | 0.85 | 0.55 | 0.85 | 0.85 | 0.65 | IoMRT17 | | 0.85 | 0.9 | 0.6 | 0.8 | 0.6 | 0.6 | IoMRT17 | | 1 | 0.6 | 0.95 | 0.6 | 0.55 | 0.65 |
| IoMRT18 | 0.8 | 0.7 | 0.9 | 0.6 | 0.95 | 0.65 | IoMRT18 | | 0.55 | 0.95 | 0.75 | 0.8 | 0.8 | 0.9 | IoMRT18 | | 0.85 | 0.55 | 0.7 | 0.95 | 0.85 | 0.8 |
| IoMRT19 | 0.9 | 0.55 | 0.55 | 1 | 0.9 | 0.9 | IoMRT19 | | 0.55 | 1 | 0.8 | 0.9 | 1 | 1 | IoMRT19 | | 0.7 | 0.6 | 0.95 | 1 | 0.55 | 0.8 |
| IoMRT20 | 0.95 | 0.8 | 0.85 | 0.65 | 0.7 | 0.9 | IoMRT20 | | 0.6 | 0.8 | 0.7 | 0.95 | 0.85 | 0.7 | IoMRT20 | | 0.75 | 0.6 | 0.8 | 0.9 | 0.65 | 0.8 |
| IoMRT21 | 0.95 | 0.8 | 0.6 | 0.85 | 0.6 | 0.75 | IoMRT21 | | 0.55 | 0.55 | 0.85 | 0.9 | 0.7 | 1 | IoMRT21 | | 0.75 | 0.6 | 0.55 | 0.95 | 1 | 0.7 |
| IoMRT22 | 0.6 | 0.65 | 0.85 | 0.95 | 0.85 | 1 | IoMRT22 | | 0.9 | 0.65 | 0.75 | 1 | 0.65 | 0.7 | IoMRT22 | | 0.85 | 1 | 0.65 | 0.55 | 0.9 | 0.75 |
| IoMRT23 | 0.6 | 0.55 | 0.75 | 0.95 | 0.55 | 0.75 | IoMRT23 | | 0.6 | 0.95 | 0.75 | 0.6 | 0.95 | 0.6 | IoMRT23 | | 0.75 | 0.65 | 0.8 | 0.85 | 0.65 | 0.75 |
| IoMRT24 | 0.6 | 0.95 | 0.65 | 0.75 | 0.65 | 1 | IoMRT24 | | 0.85 | 0.75 | 0.9 | 1 | 1 | 0.7 | IoMRT24 | | 1 | 1 | 0.75 | 0.7 | 0.85 | 1 |
| IoMRT25 | 0.55 | 0.55 | 0.95 | 0.9 | 0.85 | 0.75 | IoMRT25 | | 0.9 | 0.85 | 0.95 | 0.55 | 0.7 | 0.8 | IoMRT25 | | 0.7 | 0.85 | 0.6 | 0.85 | 0.6 | 0.55 |
| IoMRT26 | 0.55 | 0.7 | 0.95 | 1 | 0.8 | 0.8 | IoMRT26 | | 0.8 | 0.9 | 0.9 | 0.65 | 0.55 | 0.85 | IoMRT26 | | 0.7 | 0.95 | 0.65 | 0.95 | 0.85 | 0.7 |
| IoMRT27 | 0.8 | 0.9 | 1 | 1 | 0.7 | 0.9 | IoMRT27 | | 0.7 | 0.65 | 0.9 | 0.55 | 0.6 | 0.8 | IoMRT27 | | 0.95 | 0.7 | 0.9 | 0.7 | 0.95 | 0.9 |
| IoMRT28 | 0.85 | 1 | 0.55 | 0.65 | 1 | 0.7 | IoMRT28 | | 0.95 | 0.8 | 0.8 | 0.85 | 0.8 | 0.7 | IoMRT28 | | 0.8 | 0.65 | 0.85 | 0.9 | 0.95 | 0.8 |
| IoMRT29 | 1 | 0.8 | 0.85 | 0.8 | 0.6 | 0.75 | IoMRT29 | | 0.7 | 0.65 | 0.8 | 1 | 0.6 | 0.6 | IoMRT29 | | 0.9 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 |
| IoMRT30 | 0.9 | 0.9 | 0.55 | 0.9 | 0.9 | 0.6 | IoMRT30 | | 0.7 | 0.55 | 0.85 | 0.8 | 0.65 | 0.6 | IoMRT30 | | 0.6 | 0.8 | 0.9 | 0.8 | 0.75 | 1 |
| IoMRT31 | 0.7 | 0.9 | 0.6 | 0.6 | 0.6 | 0.9 | IoMRT31 | | 0.9 | 0.9 | 0.55 | 0.6 | 0.75 | 0.6 | IoMRT31 | | 0.75 | 0.65 | 0.75 | 0.85 | 0.85 | 0.55 |
| IoMRT32 | 0.75 | 0.85 | 0.6 | 0.9 | 0.75 | 0.8 | IoMRT32 | | 0.8 | 0.55 | 0.65 | 0.8 | 0.7 | 0.9 | IoMRT32 | | 0.55 | 0.7 | 0.75 | 0.9 | 0.9 | 0.7 |
| IoMRT33 | 0.65 | 0.85 | 0.7 | 0.75 | 0.95 | 0.85 | IoMRT33 | | 0.65 | 0.7 | 0.85 | 0.8 | 0.7 | 0.75 | IoMRT33 | | 0.85 | 0.55 | 0.9 | 0.7 | 0.75 | 0.95 |
| IoMRT34 | 0.9 | 1 | 0.65 | 0.8 | 0.7 | 0.9 | IoMRT34 | | 0.9 | 0.65 | 0.7 | 0.6 | 0.75 | 0.6 | IoMRT34 | | 0.9 | 0.8 | 0.75 | 0.65 | 0.7 | 0.85 |
| IoMRT35 | 0.6 | 0.8 | 0.7 | 0.65 | 0.55 | 0.65 | IoMRT35 | | 0.6 | 0.65 | 0.9 | 0.7 | 0.65 | 0.9 | IoMRT35 | | 1 | 1 | 0.55 | 1 | 0.65 | 0.85 |
| IoMRT36 | 0.9 | 0.7 | 0.65 | 0.55 | 0.8 | 0.95 | IoMRT36 | | 1 | 0.85 | 0.65 | 0.9 | 0.55 | 0.6 | IoMRT36 | | 0.85 | 0.95 | 0.55 | 0.85 | 0.55 | 0.75 |
| IoMRT37 | 0.95 | 0.85 | 0.7 | 0.65 | 0.65 | 1 | IoMRT37 | | 0.65 | 1 | 0.55 | 0.8 | 0.85 | 0.95 | IoMRT37 | | 0.85 | 0.55 | 0.8 | 0.55 | 0.75 | 0.6 |
| IoMRT38 | 0.9 | 0.75 | 0.75 | 1 | 0.6 | 0.65 | IoMRT38 | | 0.55 | 0.55 | 0.65 | 0.6 | 0.6 | 0.8 | IoMRT38 | | 0.95 | 0.85 | 0.75 | 0.85 | 0.6 | 1 |
| IoMRT39 | 0.7 | 0.6 | 0.85 | 0.75 | 0.85 | 0.9 | IoMRT39 | | 0.55 | 0.9 | 0.8 | 0.7 | 0.95 | 0.8 | IoMRT39 | | 0.75 | 0.7 | 1 | 0.6 | 0.7 | 0.95 |
| IoMRT40 | 0.8 | 0.75 | 0.9 | 0.65 | 0.75 | 0.7 | IoMRT40 | | 0.9 | 0.9 | 1 | 0.7 | 0.75 | 0.65 | IoMRT40 | | 0.75 | 0.6 | 0.55 | 0.9 | 1 | 0.75 |
| IoMRT41 | 0.75 | 0.8 | 0.65 | 0.9 | 0.6 | 0.65 | IoMRT41 | | 0.95 | 1 | 0.85 | 0.8 | 0.7 | 0.9 | IoMRT41 | | 0.95 | 0.8 | 0.7 | 0.95 | 0.8 | 0.95 |
| IoMRT42 | 0.55 | 0.7 | 0.95 | 0.9 | 0.6 | 0.6 | IoMRT42 | | 0.9 | 1 | 0.9 | 0.55 | 0.9 | 0.8 | IoMRT42 | | 0.95 | 0.75 | 0.8 | 0.7 | 1 | 0.7 |
| IoMRT43 | 0.95 | 0.7 | 0.9 | 0.55 | 0.65 | 0.85 | IoMRT43 | | 0.9 | 0.6 | 0.8 | 0.8 | 0.9 | 0.8 | IoMRT43 | | 0.6 | 0.8 | 0.6 | 0.6 | 0.55 | 0.7 |
| IoMRT44 | 0.85 | 0.9 | 0.95 | 0.95 | 0.6 | 0.8 | IoMRT44 | | 1 | 0.8 | 0.8 | 1 | 0.6 | 0.75 | IoMRT44 | | 0.55 | 0.95 | 1 | 0.9 | 1 | 0.9 |
| IoMRT45 | 0.65 | 0.8 | 0.6 | 0.9 | 0.7 | 0.95 | IoMRT45 | | 0.75 | 0.95 | 0.95 | 0.6 | 0.6 | 0.9 | IoMRT45 | | 0.55 | 0.6 | 0.85 | 0.7 | 0.55 | 0.55 |
| IoMRT46 | 1 | 0.75 | 0.55 | 0.7 | 1 | 0.65 | IoMRT46 | | 0.9 | 0.85 | 0.7 | 0.9 | 0.6 | 0.55 | IoMRT46 | | 0.6 | 0.75 | 1 | 0.65 | 0.7 | 1 |
| IoMRT47 | 0.6 | 0.55 | 0.85 | 0.85 | 0.8 | 0.6 | IoMRT47 | | 0.75 | 1 | 0.75 | 1 | 0.85 | 0.8 | IoMRT47 | | 0.6 | 0.55 | 0.85 | 0.65 | 0.9 | 0.55 |
| IoMRT48 | 0.65 | 0.65 | 0.9 | 0.65 | 0.65 | 0.75 | IoMRT48 | | 1 | 1 | 0.65 | 0.85 | 0.95 | 0.95 | IoMRT48 | | 0.85 | 0.7 | 0.55 | 0.55 | 0.85 | 0.65 |
| IoMRT49 | 0.75 | 0.75 | 0.6 | 1 | 0.75 | 0.75 | IoMRT49 | | 0.55 | 1 | 0.9 | 0.9 | 0.8 | 0.75 | IoMRT49 | | 0.55 | 0.9 | 0.7 | 0.8 | 0.75 | 0.55 |
| IoMRT50 | 0.65 | 0.85 | 0.55 | 0.65 | 0.85 | 0.9 | IoMRT50 | | 1 | 0.55 | 0.8 | 0.7 | 0.6 | 0.85 | IoMRT50 | | 0.75 | 0.55 | 0.6 | 0.75 | 0.65 | 0.75 |

Table 4: Dynamic decision matrices the three decision-makers.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Decision-maker1 | | | | | | | Decision-maker2 | | | | | | | Decision-maker3 | | | | | | |
| IoMRT/Criteria | C1 | C2 | C3 | C4 | C5 | C6 | IoMRT/Criteria | C1 | C2 | C3 | C4 | C5 | C6 | IoMRT/Criteria | C1 | C2 | C3 | C4 | C5 | C6 |
| IoMRT1 | 3 | 1 | 4 | 3 | 1 | 3 | IoMRT1 | 1 | 3 | 3 | 2 | 3 | 4 | IoMRT1 | 2 | 4 | 4 | 4 | 4 | 1 |
| IoMRT2 | 4 | 4 | 5 | 5 | 4 | 4 | IoMRT2 | 1 | 2 | 2 | 4 | 1 | 5 | IoMRT2 | 4 | 1 | 2 | 1 | 3 | 2 |
| IoMRT3 | 1 | 1 | 5 | 5 | 3 | 5 | IoMRT3 | 4 | 3 | 1 | 1 | 2 | 2 | IoMRT3 | 2 | 2 | 3 | 4 | 2 | 1 |
| IoMRT4 | 3 | 3 | 1 | 1 | 4 | 2 | IoMRT4 | 1 | 2 | 1 | 1 | 2 | 5 | IoMRT4 | 4 | 2 | 1 | 3 | 1 | 2 |
| IoMRT5 | 4 | 2 | 5 | 4 | 5 | 4 | IoMRT5 | 1 | 1 | 5 | 3 | 2 | 2 | IoMRT5 | 4 | 1 | 3 | 2 | 2 | 1 |
| IoMRT6 | 1 | 3 | 1 | 5 | 2 | 1 | IoMRT6 | 4 | 4 | 3 | 4 | 5 | 5 | IoMRT6 | 5 | 2 | 1 | 3 | 3 | 5 |
| IoMRT7 | 3 | 5 | 5 | 3 | 1 | 1 | IoMRT7 | 3 | 4 | 5 | 3 | 3 | 5 | IoMRT7 | 3 | 5 | 2 | 4 | 3 | 5 |
| IoMRT8 | 5 | 2 | 3 | 1 | 4 | 2 | IoMRT8 | 3 | 4 | 5 | 5 | 5 | 3 | IoMRT8 | 3 | 2 | 2 | 5 | 5 | 2 |
| IoMRT9 | 1 | 1 | 2 | 2 | 2 | 5 | IoMRT9 | 5 | 2 | 3 | 4 | 4 | 3 | IoMRT9 | 3 | 4 | 3 | 2 | 1 | 4 |
| IoMRT10 | 3 | 5 | 1 | 4 | 3 | 2 | IoMRT10 | 4 | 2 | 2 | 3 | 2 | 5 | IoMRT10 | 5 | 3 | 2 | 2 | 3 | 1 |
| IoMRT11 | 4 | 4 | 2 | 1 | 1 | 5 | IoMRT11 | 3 | 2 | 2 | 2 | 1 | 1 | IoMRT11 | 1 | 3 | 2 | 2 | 3 | 4 |
| IoMRT12 | 2 | 3 | 5 | 3 | 1 | 4 | IoMRT12 | 2 | 2 | 3 | 1 | 1 | 3 | IoMRT12 | 1 | 4 | 4 | 4 | 1 | 4 |
| IoMRT13 | 5 | 3 | 1 | 3 | 1 | 2 | IoMRT13 | 1 | 5 | 2 | 4 | 4 | 4 | IoMRT13 | 5 | 4 | 3 | 5 | 3 | 1 |
| IoMRT14 | 4 | 1 | 2 | 5 | 5 | 5 | IoMRT14 | 5 | 4 | 3 | 1 | 3 | 4 | IoMRT14 | 5 | 5 | 1 | 4 | 5 | 1 |
| IoMRT15 | 2 | 5 | 1 | 2 | 2 | 5 | IoMRT15 | 5 | 2 | 3 | 2 | 5 | 2 | IoMRT15 | 3 | 1 | 2 | 5 | 1 | 1 |
| IoMRT16 | 3 | 2 | 1 | 1 | 2 | 5 | IoMRT16 | 5 | 4 | 2 | 2 | 3 | 1 | IoMRT16 | 5 | 4 | 3 | 5 | 1 | 5 |
| IoMRT17 | 5 | 4 | 1 | 4 | 4 | 2 | IoMRT17 | 4 | 4 | 1 | 3 | 1 | 1 | IoMRT17 | 5 | 1 | 5 | 1 | 1 | 2 |
| IoMRT18 | 3 | 2 | 4 | 1 | 5 | 2 | IoMRT18 | 1 | 5 | 3 | 3 | 3 | 4 | IoMRT18 | 4 | 1 | 2 | 5 | 4 | 3 |
| IoMRT19 | 4 | 1 | 1 | 5 | 4 | 4 | IoMRT19 | 1 | 5 | 3 | 4 | 5 | 5 | IoMRT19 | 2 | 1 | 5 | 5 | 1 | 3 |
| IoMRT20 | 5 | 3 | 4 | 2 | 2 | 4 | IoMRT20 | 1 | 3 | 2 | 5 | 4 | 2 | IoMRT20 | 3 | 1 | 3 | 4 | 2 | 3 |
| IoMRT21 | 5 | 3 | 1 | 4 | 1 | 3 | IoMRT21 | 1 | 1 | 4 | 4 | 2 | 5 | IoMRT21 | 3 | 1 | 1 | 5 | 5 | 2 |
| IoMRT22 | 1 | 2 | 4 | 5 | 4 | 5 | IoMRT22 | 4 | 2 | 3 | 5 | 2 | 2 | IoMRT22 | 4 | 5 | 2 | 1 | 4 | 3 |
| IoMRT23 | 1 | 1 | 3 | 5 | 1 | 3 | IoMRT23 | 1 | 5 | 3 | 1 | 5 | 1 | IoMRT23 | 3 | 2 | 3 | 4 | 2 | 3 |
| IoMRT24 | 1 | 5 | 2 | 3 | 2 | 5 | IoMRT24 | 4 | 3 | 4 | 5 | 5 | 2 | IoMRT24 | 5 | 5 | 3 | 2 | 4 | 5 |
| IoMRT25 | 1 | 1 | 5 | 4 | 4 | 3 | IoMRT25 | 4 | 4 | 5 | 1 | 2 | 3 | IoMRT25 | 2 | 4 | 1 | 4 | 1 | 1 |
| IoMRT26 | 1 | 2 | 5 | 5 | 3 | 3 | IoMRT26 | 3 | 4 | 4 | 2 | 1 | 4 | IoMRT26 | 2 | 5 | 2 | 5 | 4 | 2 |
| IoMRT27 | 3 | 4 | 5 | 5 | 2 | 4 | IoMRT27 | 2 | 2 | 4 | 1 | 1 | 3 | IoMRT27 | 5 | 2 | 4 | 2 | 5 | 4 |
| IoMRT28 | 4 | 5 | 1 | 2 | 5 | 2 | IoMRT28 | 5 | 3 | 3 | 4 | 3 | 2 | IoMRT28 | 3 | 2 | 4 | 4 | 5 | 3 |
| IoMRT29 | 5 | 3 | 4 | 3 | 1 | 3 | IoMRT29 | 2 | 2 | 3 | 5 | 1 | 1 | IoMRT29 | 4 | 1 | 1 | 1 | 2 | 2 |
| IoMRT30 | 4 | 4 | 1 | 4 | 4 | 1 | IoMRT30 | 2 | 1 | 4 | 3 | 2 | 1 | IoMRT30 | 1 | 3 | 4 | 3 | 3 | 5 |
| IoMRT31 | 2 | 4 | 1 | 1 | 1 | 4 | IoMRT31 | 4 | 4 | 1 | 1 | 3 | 1 | IoMRT31 | 3 | 2 | 3 | 4 | 4 | 1 |
| IoMRT32 | 3 | 4 | 1 | 4 | 3 | 3 | IoMRT32 | 3 | 1 | 2 | 3 | 2 | 4 | IoMRT32 | 1 | 2 | 3 | 4 | 4 | 2 |
| IoMRT33 | 2 | 4 | 2 | 3 | 5 | 4 | IoMRT33 | 2 | 2 | 4 | 3 | 2 | 3 | IoMRT33 | 4 | 1 | 4 | 2 | 3 | 5 |
| IoMRT34 | 4 | 5 | 2 | 3 | 2 | 4 | IoMRT34 | 4 | 2 | 2 | 1 | 3 | 1 | IoMRT34 | 4 | 3 | 3 | 2 | 2 | 4 |
| IoMRT35 | 1 | 3 | 2 | 2 | 1 | 2 | IoMRT35 | 1 | 2 | 4 | 2 | 2 | 4 | IoMRT35 | 5 | 5 | 1 | 5 | 2 | 4 |
| IoMRT36 | 4 | 2 | 2 | 1 | 3 | 5 | IoMRT36 | 5 | 4 | 2 | 4 | 1 | 1 | IoMRT36 | 4 | 5 | 1 | 4 | 1 | 3 |
| IoMRT37 | 5 | 4 | 2 | 2 | 2 | 5 | IoMRT37 | 2 | 5 | 1 | 3 | 4 | 5 | IoMRT37 | 4 | 1 | 3 | 1 | 3 | 1 |
| IoMRT38 | 4 | 3 | 3 | 5 | 1 | 2 | IoMRT38 | 1 | 1 | 2 | 1 | 1 | 3 | IoMRT38 | 5 | 4 | 3 | 4 | 1 | 5 |
| IoMRT39 | 2 | 1 | 4 | 3 | 4 | 4 | IoMRT39 | 1 | 4 | 3 | 2 | 5 | 3 | IoMRT39 | 3 | 2 | 5 | 1 | 2 | 5 |
| IoMRT40 | 3 | 3 | 4 | 2 | 3 | 2 | IoMRT40 | 4 | 4 | 5 | 2 | 3 | 2 | IoMRT40 | 3 | 1 | 1 | 4 | 5 | 3 |
| IoMRT41 | 3 | 3 | 2 | 4 | 1 | 2 | IoMRT41 | 5 | 5 | 4 | 3 | 2 | 4 | IoMRT41 | 5 | 3 | 2 | 5 | 3 | 5 |
| IoMRT42 | 1 | 2 | 5 | 4 | 1 | 1 | IoMRT42 | 4 | 5 | 4 | 1 | 4 | 3 | IoMRT42 | 5 | 3 | 3 | 2 | 5 | 2 |
| IoMRT43 | 5 | 2 | 4 | 1 | 2 | 4 | IoMRT43 | 4 | 1 | 3 | 3 | 4 | 3 | IoMRT43 | 1 | 3 | 1 | 1 | 1 | 2 |
| IoMRT44 | 4 | 4 | 5 | 5 | 1 | 3 | IoMRT44 | 5 | 3 | 3 | 5 | 1 | 3 | IoMRT44 | 1 | 5 | 5 | 4 | 5 | 4 |
| IoMRT45 | 2 | 3 | 1 | 4 | 2 | 5 | IoMRT45 | 3 | 5 | 5 | 1 | 1 | 4 | IoMRT45 | 1 | 1 | 4 | 2 | 1 | 1 |
| IoMRT46 | 5 | 3 | 1 | 2 | 5 | 2 | IoMRT46 | 4 | 4 | 2 | 4 | 1 | 1 | IoMRT46 | 1 | 3 | 5 | 2 | 2 | 5 |
| IoMRT47 | 1 | 1 | 4 | 4 | 3 | 1 | IoMRT47 | 3 | 5 | 3 | 5 | 4 | 3 | IoMRT47 | 1 | 1 | 4 | 2 | 4 | 1 |
| IoMRT48 | 2 | 2 | 4 | 2 | 2 | 3 | IoMRT48 | 5 | 5 | 2 | 4 | 5 | 5 | IoMRT48 | 4 | 2 | 1 | 1 | 4 | 2 |
| IoMRT49 | 3 | 3 | 1 | 5 | 3 | 3 | IoMRT49 | 1 | 5 | 4 | 4 | 3 | 3 | IoMRT49 | 1 | 4 | 2 | 3 | 3 | 1 |
| IoMRT50 | 2 | 4 | 1 | 2 | 4 | 4 | IoMRT50 | 5 | 1 | 3 | 2 | 1 | 4 | IoMRT50 | 3 | 1 | 1 | 3 | 2 | 3 |

Table 5: Fuzzified dynamic decision matrix of three decision-makers.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| IoMRT/Criteria | C1 | | | | | | C2 | | | | | | C3 | | | | | | C4 | | | | | | C5 | | | | | | C6 | | | | | |
| mu | f | g | nu | F | G | mu | f | g | nu | F | G | mu | f | g | nu | F | G | mu | f | g | nu | F | G | mu | f | g | nu | F | G | mu | f | g | nu | F | G |
| IoMRT1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT3 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT5 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT6 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 |
| IoMRT7 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 |
| IoMRT8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT10 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT11 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT12 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT13 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT14 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT15 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT16 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT17 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT18 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT19 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT20 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT21 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT22 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT23 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT24 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT25 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT26 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT27 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT28 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT29 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT30 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 |
| IoMRT31 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT32 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT33 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT34 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT35 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT36 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT37 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT38 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT39 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT40 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT41 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT42 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 |
| IoMRT43 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |
| IoMRT44 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT45 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 |
| IoMRT46 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 |
| IoMRT47 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 |
| IoMRT48 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT49 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.9 | 0.9 | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| IoMRT50 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.1 | 0.1 | 0.5 | 0.9 | 0.4 | 0.9 | 0.3 | 0.2 | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 | 0.8 | 0.8 | 0.4 | 0.3 | 0.7 | 0.2 |

Table 6: Defuzzied values of the fuzzified dynamic decision matrix.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IoMRTs/Criteria | C1 | C2 | C3 | C4 | C5 | C6 |
| IoMRT1 | 0.0000 | -0.9025 | 0.5425 | 0.0000 | -0.9025 | 0.0000 |
| IoMRT2 | 0.5425 | 0.5425 | 0.6975 | 0.6975 | 0.5425 | 0.5425 |
| IoMRT3 | -0.9025 | -0.9025 | 0.6975 | 0.6975 | 0.0000 | 0.6975 |
| IoMRT4 | 0.0000 | 0.0000 | -0.9025 | -0.9025 | 0.5425 | -0.5575 |
| IoMRT5 | 0.5425 | -0.5575 | 0.6975 | 0.5425 | 0.6975 | 0.5425 |
| IoMRT6 | -0.9025 | 0.0000 | -0.9025 | 0.6975 | -0.5575 | -0.9025 |
| IoMRT7 | 0.0000 | 0.6975 | 0.6975 | 0.0000 | -0.9025 | -0.9025 |
| IoMRT8 | 0.6975 | -0.5575 | 0.0000 | -0.9025 | 0.5425 | -0.5575 |
| IoMRT9 | -0.9025 | -0.9025 | -0.5575 | -0.5575 | -0.5575 | 0.6975 |
| IoMRT10 | 0.0000 | 0.6975 | -0.9025 | 0.5425 | 0.0000 | -0.5575 |
| IoMRT11 | 0.5425 | 0.5425 | -0.5575 | -0.9025 | -0.9025 | 0.6975 |
| IoMRT12 | -0.5575 | 0.0000 | 0.6975 | 0.0000 | -0.9025 | 0.5425 |
| IoMRT13 | 0.6975 | 0.0000 | -0.9025 | 0.0000 | -0.9025 | -0.5575 |
| IoMRT14 | 0.5425 | -0.9025 | -0.5575 | 0.6975 | 0.6975 | 0.6975 |
| IoMRT15 | -0.5575 | 0.6975 | -0.9025 | -0.5575 | -0.5575 | 0.6975 |
| IoMRT16 | 0.0000 | -0.5575 | -0.9025 | -0.9025 | -0.5575 | 0.6975 |
| IoMRT17 | 0.6975 | 0.5425 | -0.9025 | 0.5425 | 0.5425 | -0.5575 |
| IoMRT18 | 0.0000 | -0.5575 | 0.5425 | -0.9025 | 0.6975 | -0.5575 |
| IoMRT19 | 0.5425 | -0.9025 | -0.9025 | 0.6975 | 0.5425 | 0.5425 |
| IoMRT20 | 0.6975 | 0.0000 | 0.5425 | -0.5575 | -0.5575 | 0.5425 |
| IoMRT21 | 0.6975 | 0.0000 | -0.9025 | 0.5425 | -0.9025 | 0.0000 |
| IoMRT22 | -0.9025 | -0.5575 | 0.5425 | 0.6975 | 0.5425 | 0.6975 |
| IoMRT23 | -0.9025 | -0.9025 | 0.0000 | 0.6975 | -0.9025 | 0.0000 |
| IoMRT24 | -0.9025 | 0.6975 | -0.5575 | 0.0000 | -0.5575 | 0.6975 |
| IoMRT25 | -0.9025 | -0.9025 | 0.6975 | 0.5425 | 0.5425 | 0.0000 |
| IoMRT26 | -0.9025 | -0.5575 | 0.6975 | 0.6975 | 0.0000 | 0.0000 |
| IoMRT27 | 0.0000 | 0.5425 | 0.6975 | 0.6975 | -0.5575 | 0.5425 |
| IoMRT28 | 0.5425 | 0.6975 | -0.9025 | -0.5575 | 0.6975 | -0.5575 |
| IoMRT29 | 0.6975 | 0.0000 | 0.5425 | 0.0000 | -0.9025 | 0.0000 |
| IoMRT30 | 0.5425 | 0.5425 | -0.9025 | 0.5425 | 0.5425 | -0.9025 |
| IoMRT31 | -0.5575 | 0.5425 | -0.9025 | -0.9025 | -0.9025 | 0.5425 |
| IoMRT32 | 0.0000 | 0.5425 | -0.9025 | 0.5425 | 0.0000 | 0.0000 |
| IoMRT33 | -0.5575 | 0.5425 | -0.5575 | 0.0000 | 0.6975 | 0.5425 |
| IoMRT34 | 0.5425 | 0.6975 | -0.5575 | 0.0000 | -0.5575 | 0.5425 |
| IoMRT35 | -0.9025 | 0.0000 | -0.5575 | -0.5575 | -0.9025 | -0.5575 |
| IoMRT36 | 0.5425 | -0.5575 | -0.5575 | -0.9025 | 0.0000 | 0.6975 |
| IoMRT37 | 0.6975 | 0.5425 | -0.5575 | -0.5575 | -0.5575 | 0.6975 |
| IoMRT38 | 0.5425 | 0.0000 | 0.0000 | 0.6975 | -0.9025 | -0.5575 |
| IoMRT39 | -0.5575 | -0.9025 | 0.5425 | 0.0000 | 0.5425 | 0.5425 |
| IoMRT40 | 0.0000 | 0.0000 | 0.5425 | -0.5575 | 0.0000 | -0.5575 |
| IoMRT41 | 0.0000 | 0.0000 | -0.5575 | 0.5425 | -0.9025 | -0.5575 |
| IoMRT42 | -0.9025 | -0.5575 | 0.6975 | 0.5425 | -0.9025 | -0.9025 |
| IoMRT43 | 0.6975 | -0.5575 | 0.5425 | -0.9025 | -0.5575 | 0.5425 |
| IoMRT44 | 0.5425 | 0.5425 | 0.6975 | 0.6975 | -0.9025 | 0.0000 |
| IoMRT45 | -0.5575 | 0.0000 | -0.9025 | 0.5425 | -0.5575 | 0.6975 |
| IoMRT46 | 0.6975 | 0.0000 | -0.9025 | -0.5575 | 0.6975 | -0.5575 |
| IoMRT47 | -0.9025 | -0.9025 | 0.5425 | 0.5425 | 0.0000 | -0.9025 |
| IoMRT48 | -0.5575 | -0.5575 | 0.5425 | -0.5575 | -0.5575 | 0.0000 |
| IoMRT49 | 0.0000 | 0.0000 | -0.9025 | 0.6975 | 0.0000 | 0.0000 |
| IoMRT50 | -0.5575 | 0.5425 | -0.9025 | -0.5575 | 0.5425 | 0.5425 |

Table 7: the overall results of DNMA step.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IoMRTs |  |  |  | DN (Final Value) | Rank |
| IoMRT1 | 0.1967 | 0.3054 | 0.1396 | 0.0881 | 34 |
| IoMRT2 | 1.0000 | 0.0049 | 1.0000 | 0.6434 | 1 |
| IoMRT3 | 0.0876 | 0.8200 | 0.4147 | 0.0115 | 39 |
| IoMRT4 | 0.1753 | 0.1672 | 0.0965 | 0.1068 | 31 |
| IoMRT5 | 0.8137 | 0.1294 | 0.8249 | 0.4835 | 3 |
| IoMRT6 | 0.0329 | 0.8200 | 0.0698 | -0.1534 | 48 |
| IoMRT7 | 0.4437 | 0.1672 | 0.2107 | 0.2387 | 22 |
| IoMRT8 | 0.4227 | 0.1294 | 0.1574 | 0.2291 | 24 |
| IoMRT9 | 0.0138 | 0.8200 | 0.0662 | -0.1770 | 49 |
| IoMRT10 | 0.3558 | 0.1672 | 0.3439 | 0.2580 | 20 |
| IoMRT11 | 0.5717 | 0.0383 | 0.2328 | 0.3477 | 13 |
| IoMRT12 | 0.2163 | 0.5124 | 0.3569 | 0.1155 | 30 |
| IoMRT13 | 0.3877 | 0.0667 | 0.1199 | 0.2369 | 23 |
| IoMRT14 | 0.4898 | 0.3054 | 0.6592 | 0.3197 | 15 |
| IoMRT15 | 0.1634 | 0.5124 | 0.1655 | 0.0318 | 38 |
| IoMRT16 | 0.1134 | 0.1672 | 0.0850 | 0.0731 | 36 |
| IoMRT17 | 0.7838 | 0.0667 | 0.5786 | 0.4626 | 6 |
| IoMRT18 | 0.2429 | 0.1672 | 0.1485 | 0.1564 | 28 |
| IoMRT19 | 0.4051 | 0.3054 | 0.5131 | 0.2667 | 19 |
| IoMRT20 | 0.7598 | 0.0279 | 0.5357 | 0.4789 | 5 |
| IoMRT21 | 0.5120 | 0.0667 | 0.2680 | 0.3250 | 14 |
| IoMRT22 | 0.1484 | 0.8200 | 0.6205 | 0.0891 | 33 |
| IoMRT23 | 0.0283 | 0.8200 | 0.0934 | -0.1439 | 47 |
| IoMRT24 | 0.1311 | 0.8200 | 0.2435 | -0.0167 | 41 |
| IoMRT25 | 0.0722 | 0.8200 | 0.2929 | -0.0319 | 42 |
| IoMRT26 | 0.0943 | 0.8200 | 0.3313 | -0.0076 | 40 |
| IoMRT27 | 0.6700 | 0.1672 | 0.7682 | 0.4287 | 9 |
| IoMRT28 | 0.5997 | 0.0667 | 0.3044 | 0.3559 | 12 |
| IoMRT29 | 0.6933 | 0.0279 | 0.4699 | 0.4504 | 7 |
| IoMRT30 | 0.6277 | 0.0667 | 0.4311 | 0.3969 | 10 |
| IoMRT31 | 0.1002 | 0.5124 | 0.0880 | -0.0342 | 43 |
| IoMRT32 | 0.3745 | 0.1672 | 0.4541 | 0.2923 | 17 |
| IoMRT33 | 0.2686 | 0.5124 | 0.5557 | 0.1826 | 27 |
| IoMRT34 | 0.7380 | 0.0383 | 0.6006 | 0.4795 | 4 |
| IoMRT35 | 0.0211 | 0.8200 | 0.0510 | -0.1781 | 50 |
| IoMRT36 | 0.3367 | 0.1294 | 0.1896 | 0.2186 | 25 |
| IoMRT37 | 0.7168 | 0.0383 | 0.4870 | 0.4496 | 8 |
| IoMRT38 | 0.5501 | 0.0279 | 0.3193 | 0.3799 | 11 |
| IoMRT39 | 0.1394 | 0.5124 | 0.3935 | 0.0949 | 32 |
| IoMRT40 | 0.3093 | 0.1672 | 0.1980 | 0.1974 | 26 |
| IoMRT41 | 0.2299 | 0.1672 | 0.1319 | 0.1446 | 29 |
| IoMRT42 | 0.0455 | 0.8200 | 0.0788 | -0.1372 | 46 |
| IoMRT43 | 0.5326 | 0.1294 | 0.2784 | 0.2992 | 16 |
| IoMRT44 | 0.8812 | 0.0171 | 0.7110 | 0.5504 | 2 |
| IoMRT45 | 0.1245 | 0.5124 | 0.2238 | 0.0367 | 37 |
| IoMRT46 | 0.4693 | 0.0667 | 0.1822 | 0.2845 | 18 |
| IoMRT47 | 0.0383 | 0.8200 | 0.1004 | -0.1310 | 45 |
| IoMRT48 | 0.0787 | 0.5124 | 0.1104 | -0.0344 | 44 |
| IoMRT49 | 0.2896 | 0.1672 | 0.3774 | 0.2478 | 21 |
| IoMRT50 | 0.1886 | 0.5124 | 0.2575 | 0.0753 | 35 |

Table 8: New criteria weights and α values for sensitivity analysis

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Criteria | C1 | C2 | C3 | C4 | C5 | C6 |
| Original Weights | 0.4060 | 0.2127 | 0.1290 | 0.0895 | 0.0733 | 0.0895 |
| S1 | 0.0000 | 0.3581 | 0.2173 | 0.1506 | 0.1234 | 0.1506 |
| S2 | 0.1250 | 0.3133 | 0.1901 | 0.1318 | 0.1080 | 0.1318 |
| S3 | 0.2500 | 0.2686 | 0.1629 | 0.1130 | 0.0926 | 0.1130 |
| S4 | 0.3750 | 0.2238 | 0.1358 | 0.0941 | 0.0771 | 0.0941 |
| S5 | 0.5000 | 0.1791 | 0.1086 | 0.0753 | 0.0617 | 0.0753 |
| S6 | 0.6250 | 0.1343 | 0.0815 | 0.0565 | 0.0463 | 0.0565 |
| S7 | 0.7500 | 0.0895 | 0.0543 | 0.0377 | 0.0309 | 0.0377 |
| S8 | 0.8750 | 0.0448 | 0.0272 | 0.0188 | 0.0154 | 0.0188 |
| S9 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|  | 0.6835 | 0.3581 | 0.2173 | 0.1506 | 0.1234 | 0.1506 |