

Table 1. First principal component coefficients for $Sa(T_i) - Sa(T_j)$ models

IMs	0.01	0.05	0.075	0.10	0.20	0.30	0.40	0.50	0.75	1.00	1.50	2.00	3.00	4.00	5.00
0.01	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.05	0.72/0.70	1	-	-	-	-	-	-	-	-	-	-	-	-	-
0.07	0.72/0.69	0.71/0.70	1	-	-	-	-	-	-	-	-	-	-	-	-
0.10	0.72/0.70	0.71/0.71	0.70/0.71	1	-	-	-	-	-	-	-	-	-	-	-
0.20	0.70/0.71	0.69/0.72	0.69/0.73	0.69/0.72	1	-	-	-	-	-	-	-	-	-	-
0.30	0.69/0.73	0.67/0.74	0.67/0.74	0.67/0.74	0.69/0.72	1	-	-	-	-	-	-	-	-	-
0.40	0.68/0.73	0.66/0.75	0.66/0.76	0.66/0.75	0.68/0.73	0.70/0.71	1	-	-	-	-	-	-	-	-
0.50	0.68/0.73	0.66/0.75	0.65/0.76	0.66/0.75	0.68/0.73	0.70/0.71	0.71/0.71	1	-	-	-	-	-	-	-
0.75	0.68/0.73	0.66/0.75	0.65/0.76	0.65/0.76	0.69/0.73	0.71/0.71	0.71/0.70	0.71/0.70	1	-	-	-	-	-	-
1.00	0.68/0.73	0.66/0.76	0.64/0.77	0.65/0.76	0.69/0.73	0.71/0.70	0.72/0.69	0.72/0.70	0.71/0.70	1	-	-	-	-	-
1.50	0.69/0.72	0.66/0.75	0.65/0.76	0.66/0.76	0.70/0.71	0.73/0.69	0.73/0.68	0.73/0.68	0.72/0.69	0.71/0.70	1	-	-	-	-
2.00	0.72/0.70	0.69/0.73	0.68/0.74	0.69/0.73	0.73/0.68	0.75/0.66	0.76/0.65	0.75/0.66	0.74/0.68	0.73/0.69	0.72/0.70	1	-	-	-
3.00	0.74/0.67	0.71/0.70	0.71/0.71	0.72/0.70	0.76/0.65	0.78/0.63	0.78/0.63	0.77/0.64	0.75/0.66	0.74/0.67	0.73/0.68	0.72/0.70	1	-	-
4.00	0.76/0.65	0.73/0.68	0.73/0.69	0.74/0.67	0.79/0.62	0.80/0.60	0.80/0.61	0.78/0.62	0.76/0.65	0.75/0.66	0.74/0.67	0.72/0.69	0.71/0.70	1	-
5.00	0.76/0.65	0.74/0.68	0.73/0.68	0.75/0.67	0.80/0.61	0.81/0.59	0.80/0.60	0.79/0.61	0.77/0.64	0.76/0.65	0.74/0.67	0.73/0.69	0.71/0.70	0.71/0.71	1

(a/b) denotes the first principal component coefficient, where *a* refers to the row intensity measure and *b* refers to the column intensity measure.

$IM_i - IM_j$ denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 2. First principal component coefficients for $Sa_{avg2}(T_i)$ - $Sa_{avg2}(T_j)$ models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
0.10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.15	0.70/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.20	0.70/0.72	0.70/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.30	0.69/0.72	0.70/0.72	0.70/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-
0.40	0.69/0.73	0.69/0.72	0.70/0.71	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-
0.50	0.68/0.73	0.69/0.72	0.70/0.72	0.71/0.71	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-
0.60	0.68/0.73	0.69/0.72	0.70/0.72	0.71/0.71	0.71/0.71	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-
0.75	0.68/0.73	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.71	0.71/0.70	0.71/0.71	1	-	-	-	-	-	-	-	-	-
0.80	0.68/0.73	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	1	-	-	-	-	-	-	-	-
0.90	0.69/0.73	0.70/0.72	0.70/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	1	-	-	-	-	-	-	-
1.00	0.69/0.72	0.70/0.72	0.71/0.71	0.71/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	1	-	-	-	-	-	-
1.20	0.69/0.72	0.70/0.71	0.71/0.70	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	1	-	-	-	-	-
1.50	0.70/0.71	0.71/0.70	0.72/0.69	0.73/0.69	0.73/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	1	-	-	-	-
2.00	0.72/0.69	0.73/0.68	0.74/0.68	0.74/0.67	0.74/0.67	0.74/0.68	0.74/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.69	0.71/0.70	1	-	-	-
2.50	0.73/0.68	0.74/0.67	0.75/0.66	0.75/0.66	0.75/0.66	0.75/0.67	0.74/0.67	0.74/0.67	0.74/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.71/0.70	1	-	-
3.00	0.74/0.67	0.75/0.66	0.76/0.65	0.76/0.65	0.76/0.66	0.75/0.66	0.75/0.66	0.74/0.67	0.74/0.67	0.74/0.67	0.73/0.68	0.73/0.68	0.72/0.69	0.71/0.70	0.71/0.70	1	-
4.00	0.75/0.66	0.76/0.65	0.77/0.64	0.77/0.64	0.76/0.65	0.76/0.65	0.75/0.66	0.75/0.66	0.74/0.67	0.74/0.67	0.74/0.68	0.73/0.68	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	1

(a/b) denotes the first principal component coefficient, where a refers to the row intensity measure and b refers to the column intensity measure.

IM_i - IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 3. First principal component coefficients for $Sa_{avg3}(T_i)$ - $Sa_{avg3}(T_j)$ models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
0.10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.15	0.70/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.20	0.70/0.72	0.70/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.30	0.69/0.72	0.70/0.71	0.70/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-
0.40	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-
0.50	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.71	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-
0.60	0.70/0.72	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	1	-	-	-	-	-	-	-	-	-	-
0.75	0.70/0.71	0.71/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	1	-	-	-	-	-	-	-	-	-
0.80	0.70/0.71	0.71/0.70	0.72/0.70	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.71	1	-	-	-	-	-	-	-	-
0.90	0.71/0.71	0.72/0.70	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	1	-	-	-	-	-	-	-
1.00	0.71/0.70	0.72/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.71/0.70	0.71/0.70	0.71/0.70	1	-	-	-	-	-	-
1.20	0.72/0.69	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	1	-	-	-	-	-
1.50	0.73/0.68	0.74/0.67	0.74/0.67	0.74/0.67	0.74/0.68	0.73/0.68	0.73/0.68	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	1	-	-	-	-
2.00	0.75/0.66	0.75/0.66	0.76/0.65	0.75/0.66	0.75/0.67	0.74/0.67	0.74/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	1	-	-	-
2.50	0.75/0.66	0.76/0.65	0.76/0.65	0.75/0.66	0.75/0.66	0.74/0.67	0.74/0.67	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	1	-	-
3.00	0.75/0.66	0.76/0.65	0.76/0.65	0.76/0.65	0.75/0.66	0.75/0.67	0.74/0.67	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.71/0.71	1	-
4.00	0.75/0.66	0.76/0.65	0.76/0.65	0.76/0.66	0.75/0.66	0.74/0.67	0.74/0.67	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.71	0.70/0.71	0.70/0.71	1

(a/b) denotes the first principal component coefficient, where *a* refers to the row intensity measure and *b* refers to the column intensity measure.

IM_i - IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 4. First principal component coefficients for $FIV3(T_i)$ - $FIV3(T_j)$ models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
0.10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.15	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.20	0.71/0.71	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.30	0.71/0.71	0.71/0.71	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-	-
0.40	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-	-
0.50	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	1	-	-	-	-	-	-	-	-	-	-	-
0.60	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	1	-	-	-	-	-	-	-	-	-	-
0.75	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	1	-	-	-	-	-	-	-	-	-
0.80	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	1	-	-	-	-	-	-	-	-
0.90	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	1	-	-	-	-	-	-	-
1.00	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	1	-	-	-	-	-	-
1.20	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	1	-	-	-	-	-
1.50	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	1	-	-	-	-
2.00	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.71/0.71	1	-	-	-
2.50	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.70/0.71	0.71/0.71	1	-	-
3.00	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.71	0.70/0.71	0.70/0.71	1	-
4.00	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.71	0.71/0.71	0.71/0.71	1	-

(a/b) denotes the first principal component coefficient, where a refers to the row intensity measure and b refers to the column intensity measure.

IM_i - IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 5. First principal component coefficients for $Sa(T_i)-Sa_{avg2}(T_j)$ models

IMs	0.01	0.05	0.075	0.10	0.20	0.30	0.40	0.50	0.75	1.00	1.50	2.00	3.00	4.00	5.00
0.10	0.71/0.70	0.70/0.71	0.70/0.71	0.70/0.71	0.72/0.70	0.73/0.68	0.74/0.67	0.75/0.67	0.75/0.67	0.75/0.66	0.74/0.67	0.71/0.70	0.69/0.73	0.66/0.75	0.66/0.75
0.15	0.71/0.71	0.70/0.72	0.69/0.72	0.70/0.72	0.71/0.70	0.73/0.69	0.74/0.68	0.74/0.68	0.74/0.68	0.74/0.68	0.73/0.69	0.70/0.71	0.67/0.74	0.65/0.76	0.64/0.77
0.20	0.70/0.71	0.69/0.72	0.69/0.73	0.69/0.72	0.71/0.71	0.72/0.69	0.73/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.71/0.70	0.69/0.73	0.66/0.75	0.64/0.77	0.63/0.78
0.30	0.70/0.72	0.68/0.73	0.68/0.73	0.68/0.73	0.70/0.71	0.71/0.70	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.71	0.68/0.73	0.66/0.76	0.64/0.77	0.63/0.78
0.40	0.69/0.72	0.68/0.73	0.68/0.74	0.68/0.73	0.70/0.71	0.71/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.68/0.73	0.66/0.75	0.64/0.77	0.64/0.77
0.50	0.69/0.72	0.68/0.74	0.67/0.74	0.68/0.74	0.70/0.72	0.71/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.68/0.73	0.66/0.75	0.65/0.76	0.64/0.77
0.60	0.69/0.72	0.68/0.74	0.67/0.74	0.68/0.74	0.70/0.72	0.71/0.70	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.69/0.73	0.67/0.74	0.65/0.76	0.65/0.76
0.75	0.69/0.72	0.68/0.74	0.67/0.74	0.68/0.74	0.70/0.71	0.72/0.70	0.72/0.69	0.72/0.69	0.71/0.70	0.71/0.70	0.70/0.71	0.69/0.72	0.67/0.74	0.66/0.75	0.66/0.75
0.80	0.70/0.72	0.68/0.74	0.67/0.74	0.68/0.74	0.70/0.71	0.72/0.70	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.69/0.72	0.68/0.74	0.67/0.75	0.66/0.75
0.90	0.70/0.72	0.68/0.73	0.67/0.74	0.68/0.74	0.70/0.71	0.72/0.69	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.69/0.72	0.68/0.73	0.67/0.74	0.67/0.75
1.00	0.70/0.71	0.68/0.73	0.68/0.74	0.68/0.73	0.71/0.71	0.72/0.69	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.72	0.69/0.73	0.68/0.74	0.67/0.74
1.20	0.71/0.71	0.69/0.73	0.68/0.73	0.69/0.73	0.71/0.70	0.73/0.68	0.74/0.68	0.73/0.68	0.72/0.69	0.72/0.69	0.71/0.70	0.70/0.71	0.69/0.72	0.68/0.73	0.68/0.73
1.50	0.72/0.70	0.70/0.72	0.69/0.72	0.70/0.72	0.73/0.69	0.74/0.67	0.75/0.67	0.74/0.67	0.73/0.68	0.73/0.69	0.72/0.69	0.71/0.71	0.70/0.72	0.69/0.72	0.69/0.72
2.00	0.73/0.68	0.71/0.70	0.71/0.71	0.71/0.70	0.74/0.67	0.76/0.65	0.76/0.65	0.75/0.66	0.74/0.67	0.74/0.68	0.73/0.69	0.72/0.70	0.71/0.71	0.70/0.71	0.70/0.71
2.50	0.74/0.67	0.72/0.69	0.72/0.70	0.73/0.69	0.76/0.65	0.77/0.64	0.77/0.64	0.76/0.65	0.75/0.66	0.74/0.67	0.73/0.68	0.72/0.69	0.71/0.70	0.71/0.71	0.71/0.71
3.00	0.75/0.66	0.73/0.68	0.73/0.69	0.74/0.67	0.77/0.64	0.78/0.63	0.78/0.63	0.77/0.64	0.75/0.66	0.75/0.66	0.74/0.68	0.72/0.69	0.71/0.70	0.71/0.71	0.71/0.71
4.00	0.75/0.66	0.74/0.68	0.73/0.68	0.75/0.67	0.78/0.62	0.79/0.62	0.78/0.62	0.76/0.65	0.75/0.66	0.74/0.67	0.73/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70

(a/b) denotes the first principal component coefficient, where a refers to the row intensity measure and b refers to the column intensity measure.

IM_i-IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 6. First principal component coefficients for $Sa(T_i)$ – $Sa_{avg3}(T_j)$ models

IMs	0.01	0.05	0.075	0.10	0.20	0.30	0.40	0.50	0.75	1.00	1.50	2.00	3.00	4.00	5.00
0.10	0.71/0.71	0.70/0.72	0.69/0.72	0.70/0.72	0.71/0.70	0.73/0.69	0.73/0.68	0.74/0.68	0.74/0.68	0.74/0.68	0.73/0.69	0.70/0.72	0.67/0.74	0.65/0.76	0.64/0.77
0.15	0.70/0.71	0.69/0.72	0.69/0.73	0.69/0.72	0.71/0.71	0.72/0.70	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.71/0.70	0.68/0.73	0.66/0.75	0.64/0.77	0.63/0.78
0.20	0.70/0.72	0.68/0.73	0.68/0.73	0.68/0.73	0.70/0.71	0.71/0.70	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.71	0.68/0.73	0.66/0.76	0.64/0.77	0.63/0.78
0.30	0.69/0.72	0.68/0.73	0.67/0.74	0.68/0.73	0.70/0.72	0.71/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.68/0.73	0.66/0.75	0.65/0.76	0.64/0.77
0.40	0.69/0.72	0.68/0.73	0.67/0.74	0.68/0.74	0.70/0.71	0.71/0.70	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.69/0.73	0.67/0.74	0.66/0.76	0.65/0.76
0.50	0.69/0.72	0.68/0.74	0.67/0.74	0.68/0.74	0.70/0.71	0.72/0.70	0.72/0.69	0.72/0.69	0.71/0.70	0.71/0.70	0.70/0.71	0.69/0.72	0.67/0.74	0.66/0.75	0.66/0.75
0.60	0.70/0.72	0.68/0.73	0.67/0.74	0.68/0.73	0.70/0.71	0.72/0.69	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.69/0.72	0.68/0.73	0.67/0.74	0.67/0.75
0.75	0.70/0.71	0.69/0.73	0.68/0.73	0.69/0.73	0.71/0.70	0.73/0.69	0.73/0.68	0.73/0.68	0.72/0.69	0.72/0.69	0.71/0.70	0.70/0.71	0.69/0.72	0.68/0.73	0.68/0.74
0.80	0.71/0.71	0.69/0.73	0.68/0.73	0.69/0.73	0.71/0.70	0.73/0.68	0.74/0.68	0.73/0.68	0.72/0.69	0.72/0.69	0.71/0.70	0.70/0.71	0.69/0.72	0.68/0.73	0.68/0.73
0.90	0.71/0.70	0.69/0.72	0.69/0.73	0.69/0.72	0.72/0.69	0.73/0.68	0.74/0.67	0.74/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.71	0.69/0.72	0.69/0.73	0.68/0.73
1.00	0.72/0.70	0.70/0.72	0.69/0.72	0.70/0.72	0.73/0.69	0.74/0.67	0.74/0.67	0.74/0.67	0.73/0.68	0.73/0.69	0.72/0.69	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.72
1.20	0.72/0.69	0.70/0.71	0.70/0.71	0.71/0.71	0.73/0.68	0.75/0.66	0.75/0.66	0.75/0.66	0.74/0.68	0.73/0.68	0.72/0.69	0.71/0.70	0.70/0.71	0.70/0.72	0.70/0.72
1.50	0.73/0.68	0.72/0.70	0.71/0.70	0.72/0.69	0.75/0.66	0.76/0.65	0.76/0.65	0.76/0.65	0.74/0.67	0.74/0.67	0.73/0.68	0.72/0.70	0.71/0.70	0.70/0.71	0.70/0.71
2.00	0.75/0.67	0.73/0.69	0.72/0.69	0.73/0.68	0.77/0.64	0.77/0.63	0.77/0.63	0.77/0.64	0.75/0.66	0.75/0.67	0.74/0.68	0.72/0.69	0.71/0.70	0.71/0.71	0.71/0.71
2.50	0.75/0.66	0.73/0.68	0.73/0.69	0.74/0.68	0.77/0.64	0.78/0.63	0.78/0.63	0.77/0.64	0.76/0.65	0.75/0.66	0.74/0.68	0.72/0.69	0.71/0.70	0.71/0.71	0.71/0.71
3.00	0.75/0.66	0.73/0.68	0.73/0.69	0.74/0.67	0.77/0.63	0.78/0.62	0.78/0.62	0.77/0.63	0.76/0.65	0.75/0.66	0.74/0.67	0.73/0.69	0.72/0.70	0.71/0.71	0.71/0.71
4.00	0.75/0.66	0.73/0.69	0.72/0.69	0.73/0.68	0.77/0.63	0.78/0.62	0.78/0.62	0.77/0.63	0.76/0.65	0.75/0.66	0.74/0.68	0.72/0.69	0.71/0.70	0.71/0.71	0.71/0.71

(a/b) denotes the first principal component coefficient, where a refers to the row intensity measure and b refers to the column intensity measure.

IM_i – IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 7. First principal component coefficients for $Sa(T_i)$ - $FIV3(T_j)$ models

IMs	0.01	0.05	0.075	0.10	0.20	0.30	0.40	0.50	0.75	1.00	1.50	2.00	3.00	4.00	5.00
0.10	0.70/0.72	0.68/0.74	0.67/0.74	0.67/0.74	0.70/0.71	0.72/0.69	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.69/0.72	0.68/0.73	0.67/0.74	0.67/0.74
0.15	0.70/0.72	0.68/0.74	0.67/0.74	0.67/0.74	0.70/0.71	0.72/0.69	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.69/0.72	0.68/0.73	0.67/0.74	0.67/0.74
0.20	0.70/0.72	0.68/0.74	0.67/0.74	0.67/0.74	0.70/0.71	0.72/0.69	0.73/0.69	0.73/0.69	0.72/0.70	0.72/0.70	0.71/0.71	0.70/0.72	0.68/0.73	0.67/0.74	0.67/0.74
0.30	0.70/0.72	0.68/0.74	0.67/0.74	0.67/0.74	0.71/0.71	0.72/0.69	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.71	0.70/0.72	0.68/0.73	0.68/0.74	0.67/0.74
0.40	0.70/0.71	0.68/0.74	0.67/0.74	0.68/0.74	0.71/0.70	0.73/0.69	0.73/0.68	0.73/0.68	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.72	0.69/0.73	0.68/0.74	0.67/0.74
0.50	0.70/0.71	0.68/0.73	0.67/0.74	0.68/0.74	0.71/0.70	0.73/0.68	0.74/0.68	0.73/0.68	0.72/0.69	0.72/0.69	0.71/0.70	0.70/0.71	0.69/0.72	0.68/0.73	0.68/0.74
0.60	0.71/0.71	0.68/0.73	0.67/0.74	0.68/0.73	0.72/0.70	0.74/0.68	0.74/0.67	0.74/0.68	0.73/0.69	0.72/0.69	0.71/0.70	0.70/0.71	0.69/0.72	0.68/0.73	0.68/0.73
0.75	0.71/0.70	0.69/0.73	0.68/0.73	0.69/0.73	0.72/0.69	0.74/0.67	0.75/0.67	0.74/0.67	0.73/0.68	0.72/0.69	0.72/0.70	0.71/0.71	0.70/0.72	0.69/0.73	0.69/0.73
0.80	0.71/0.70	0.69/0.73	0.68/0.73	0.69/0.73	0.73/0.69	0.74/0.67	0.75/0.66	0.74/0.67	0.73/0.68	0.72/0.69	0.72/0.70	0.71/0.71	0.70/0.72	0.69/0.73	0.69/0.73
0.90	0.71/0.70	0.69/0.72	0.68/0.73	0.69/0.72	0.73/0.68	0.75/0.67	0.75/0.66	0.74/0.67	0.73/0.68	0.73/0.69	0.72/0.70	0.71/0.71	0.70/0.72	0.69/0.72	0.69/0.73
1.00	0.72/0.70	0.69/0.72	0.69/0.73	0.69/0.72	0.73/0.68	0.75/0.66	0.75/0.66	0.75/0.67	0.73/0.68	0.73/0.69	0.72/0.69	0.71/0.71	0.70/0.72	0.69/0.72	0.69/0.72
1.20	0.72/0.69	0.70/0.72	0.69/0.72	0.70/0.72	0.74/0.68	0.75/0.66	0.75/0.66	0.75/0.66	0.74/0.68	0.73/0.68	0.72/0.69	0.71/0.70	0.70/0.71	0.69/0.72	0.69/0.72
1.50	0.72/0.69	0.70/0.71	0.70/0.72	0.70/0.71	0.74/0.67	0.76/0.65	0.76/0.65	0.75/0.66	0.74/0.67	0.73/0.68	0.72/0.69	0.71/0.70	0.70/0.71	0.70/0.72	0.70/0.72
2.00	0.72/0.69	0.70/0.72	0.69/0.72	0.70/0.71	0.74/0.68	0.75/0.66	0.76/0.65	0.75/0.66	0.74/0.68	0.73/0.68	0.72/0.69	0.71/0.70	0.70/0.71	0.69/0.72	0.69/0.72
2.50	0.72/0.70	0.69/0.72	0.69/0.73	0.69/0.72	0.73/0.68	0.75/0.66	0.75/0.66	0.75/0.67	0.73/0.68	0.73/0.68	0.72/0.69	0.71/0.71	0.70/0.72	0.69/0.72	0.69/0.72
3.00	0.71/0.70	0.69/0.73	0.68/0.73	0.69/0.73	0.73/0.69	0.75/0.67	0.75/0.66	0.74/0.67	0.73/0.68	0.73/0.69	0.72/0.70	0.71/0.71	0.70/0.72	0.69/0.72	0.69/0.72
4.00	0.71/0.70	0.69/0.73	0.68/0.74	0.69/0.73	0.73/0.69	0.75/0.67	0.75/0.66	0.74/0.67	0.73/0.68	0.73/0.69	0.72/0.70	0.71/0.71	0.70/0.72	0.69/0.72	0.69/0.73

(a/b) denotes the first principal component coefficient, where a refers to the row intensity measure and b refers to the column intensity measure.

IM_i - IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 8. First principal component coefficients for $Sa_{avg2}(T_i)$ - $Sa_{avg3}(T_j)$ models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
0.10	0.70/0.71	0.71/0.71	0.71/0.70	0.72/0.70	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.70/0.71	0.68/0.73	0.67/0.74	0.66/0.75	0.65/0.76
0.15	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.69/0.72	0.67/0.74	0.66/0.75	0.65/0.76	0.64/0.77
0.20	0.69/0.72	0.70/0.72	0.70/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.73	0.67/0.74	0.66/0.75	0.65/0.76	0.64/0.77
0.30	0.69/0.73	0.69/0.72	0.70/0.72	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.73	0.67/0.74	0.66/0.75	0.66/0.75	0.65/0.76
0.40	0.68/0.73	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.68/0.73	0.67/0.74	0.66/0.75	0.66/0.75
0.50	0.68/0.73	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.68/0.73	0.67/0.74	0.67/0.74	0.66/0.75	0.66/0.75
0.60	0.69/0.73	0.70/0.72	0.70/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.73	0.68/0.73	0.67/0.74	0.67/0.74	0.67/0.74
0.75	0.69/0.72	0.70/0.71	0.71/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.73	0.68/0.73	0.68/0.73
0.80	0.70/0.72	0.70/0.71	0.71/0.70	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.73	0.68/0.73	0.68/0.73
0.90	0.70/0.71	0.71/0.71	0.72/0.70	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.73	0.69/0.73
1.00	0.71/0.71	0.71/0.70	0.72/0.69	0.73/0.69	0.73/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.72	0.69/0.72
1.20	0.71/0.70	0.72/0.69	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72
1.50	0.73/0.69	0.73/0.68	0.74/0.67	0.74/0.67	0.74/0.67	0.74/0.67	0.74/0.67	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.71	0.70/0.71	0.70/0.71
2.00	0.74/0.67	0.75/0.66	0.75/0.66	0.76/0.65	0.75/0.66	0.75/0.66	0.74/0.67	0.74/0.67	0.74/0.68	0.73/0.68	0.73/0.68	0.72/0.69	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.71/0.71
2.50	0.74/0.67	0.75/0.66	0.76/0.65	0.76/0.65	0.76/0.65	0.75/0.66	0.75/0.66	0.74/0.67	0.74/0.67	0.74/0.67	0.74/0.68	0.73/0.68	0.72/0.69	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71
3.00	0.74/0.67	0.75/0.66	0.76/0.65	0.76/0.65	0.76/0.65	0.75/0.66	0.75/0.66	0.75/0.67	0.74/0.67	0.74/0.67	0.74/0.68	0.73/0.68	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.71/0.71
4.00	0.74/0.67	0.75/0.66	0.76/0.65	0.76/0.65	0.76/0.65	0.75/0.66	0.75/0.66	0.74/0.67	0.74/0.67	0.74/0.67	0.73/0.68	0.73/0.68	0.72/0.69	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71

(a/b) denotes the first principal component coefficient, where a refers to the row intensity measure and b refers to the column intensity measure.

IM_i - IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 9. First principal component coefficients for $Sa_{avg2}(T_i)$ - $FIV3(T_j)$ models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
0.10	0.68/0.73	0.69/0.72	0.70/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.72	0.69/0.73	0.68/0.73	0.68/0.74	0.67/0.74
0.15	0.68/0.73	0.69/0.72	0.70/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.72	0.69/0.73	0.68/0.73	0.68/0.74	0.67/0.74
0.20	0.68/0.73	0.69/0.72	0.70/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.73	0.68/0.73	0.68/0.74	0.67/0.74	
0.30	0.68/0.73	0.70/0.72	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.73	0.68/0.73	0.68/0.74	0.67/0.74	
0.40	0.69/0.73	0.70/0.72	0.71/0.71	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.68/0.73	0.68/0.73	0.68/0.74
0.50	0.69/0.73	0.70/0.71	0.71/0.70	0.72/0.70	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.73	0.68/0.73	0.68/0.73
0.60	0.69/0.72	0.71/0.71	0.72/0.70	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.73	0.69/0.73	0.68/0.73
0.75	0.70/0.72	0.71/0.70	0.72/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.73
0.80	0.70/0.72	0.71/0.70	0.72/0.69	0.73/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.73	0.69/0.73
0.90	0.70/0.71	0.71/0.70	0.72/0.69	0.73/0.68	0.73/0.68	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.73
1.00	0.70/0.71	0.72/0.70	0.73/0.69	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.72	0.69/0.72
1.20	0.71/0.71	0.72/0.69	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72
1.50	0.71/0.70	0.72/0.69	0.73/0.68	0.74/0.67	0.74/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.71	0.70/0.72	0.70/0.72	0.69/0.72
2.00	0.71/0.70	0.72/0.69	0.73/0.68	0.74/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72
2.50	0.70/0.71	0.72/0.70	0.73/0.69	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.72	0.69/0.72
3.00	0.70/0.72	0.71/0.70	0.72/0.69	0.73/0.68	0.73/0.68	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.73
4.00	0.70/0.72	0.71/0.70	0.72/0.69	0.73/0.68	0.73/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.73

(a/b) denotes the first principal component coefficient, where a refers to the row intensity measure and b refers to the column intensity measure.

IM_i - IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 10. First principal component coefficients for $Sa_{avg3}(T_i)$ -FIV3(T_j) models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
0.10	0.69/0.72	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.68/0.73	0.68/0.74	0.67/0.74	0.67/0.74	0.68/0.74
0.15	0.69/0.72	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.68/0.73	0.68/0.74	0.67/0.74	0.67/0.74	0.68/0.74
0.20	0.70/0.72	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.70/0.72	0.69/0.72	0.68/0.73	0.68/0.74	0.68/0.74	0.67/0.74	0.68/0.74
0.30	0.70/0.72	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.73	0.68/0.73	0.68/0.74	0.68/0.74	0.68/0.74	0.68/0.73
0.40	0.70/0.72	0.71/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.73	0.68/0.73	0.68/0.73	0.68/0.73	0.68/0.73
0.50	0.70/0.71	0.71/0.70	0.72/0.70	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.72	0.69/0.72	0.68/0.73	0.68/0.73	0.68/0.73	0.68/0.73
0.60	0.71/0.71	0.72/0.70	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.73	0.68/0.73	0.68/0.73	0.69/0.73
0.75	0.71/0.70	0.72/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.72	0.69/0.73	0.69/0.73	0.69/0.73	0.69/0.72
0.80	0.71/0.70	0.72/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.72	0.69/0.72	0.69/0.73	0.69/0.73	0.69/0.72
0.90	0.71/0.70	0.73/0.69	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.72
1.00	0.72/0.70	0.73/0.69	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.69	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.72
1.20	0.72/0.69	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.72
1.50	0.72/0.69	0.74/0.68	0.74/0.67	0.74/0.68	0.73/0.68	0.73/0.68	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.72	0.70/0.72	0.70/0.72	0.70/0.72
2.00	0.72/0.69	0.73/0.68	0.74/0.68	0.73/0.68	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.69/0.72	0.69/0.72	0.69/0.72	0.70/0.72	0.70/0.72
2.50	0.72/0.70	0.73/0.69	0.73/0.68	0.73/0.68	0.73/0.69	0.73/0.69	0.72/0.69	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.72
3.00	0.71/0.70	0.72/0.69	0.73/0.68	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.72
4.00	0.71/0.70	0.72/0.69	0.73/0.69	0.73/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.72

(a/b) denotes the first principal component coefficient, where a refers to the row intensity measure and b refers to the column intensity measure.

IM_i - IM_j denotes the pair of intensity measures analysed, where the column periods correspond to IM_i and the row periods correspond to IM_j .

Table 11. First principal component coefficients for $Sa(T_i)$ -PGA and $Sa(T_i)$ -PGV models

IMs	PGA	PGV	0.01	0.05	0.075	0.10	0.20	0.30	0.40	0.50	0.75	1.00	1.50	2.00	3.00	4.00	5.00	
PGA	1		0.70/0.72	0.71/0.71	0.70/0.72	0.69/0.72	0.70/0.72	0.71/0.70	0.73/0.69	0.73/0.68	0.73/0.68	0.73/0.68	0.73/0.68	0.72/0.69	0.70/0.72	0.67/0.74	0.65/0.76	0.65/0.76
PGV		1		0.69/0.72	0.68/0.74	0.67/0.74	0.68/0.74	0.70/0.71	0.72/0.70	0.72/0.69	0.72/0.70	0.71/0.70	0.70/0.71	0.69/0.72	0.68/0.74	0.67/0.75	0.66/0.75	

(a/b) denotes the first principal component coefficient, where *a* refers to the row intensity measure and *b* refers to the column intensity measure.

Table 12. First principal component coefficients for $Sa_{avg2}(T_i)$ -PGA and $Sa_{avg2}(T_i)$ -PGV models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
PGA	0.70/0.71	0.71/0.71	0.71/0.70	0.72/0.70	0.72/0.69	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.71	0.70/0.72	0.68/0.73	0.67/0.74	0.66/0.75	0.66/0.76
PGV	0.68/0.73	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.68/0.73	0.67/0.74	0.67/0.74	0.67/0.74

(a/b) denotes the first principal component coefficient, where *a* refers to the row intensity measure and *b* refers to the column intensity measure.

Table 13. First principal component coefficients for $Sa_{avg3}(T_i)$ -PGA and $Sa_{avg3}(T_i)$ -PGV models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
PGA	0.71/0.71	0.71/0.70	0.72/0.70	0.72/0.69	0.72/0.69	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.72	0.69/0.72	0.68/0.73	0.67/0.75	0.66/0.75	0.66/0.75	0.66/0.75
PGV	0.69/0.72	0.70/0.71	0.71/0.71	0.71/0.70	0.71/0.71	0.71/0.71	0.70/0.71	0.70/0.72	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.73	0.68/0.73	0.67/0.74	0.67/0.74	0.67/0.74	

(a/b) denotes the first principal component coefficient, where *a* refers to the row intensity measure and *b* refers to the column intensity measure.

Table 14. First principal component coefficients for $FIV3(T_i)$ -PGA and $FIV3(T_i)$ -PGV models

IMs	0.10	0.15	0.20	0.30	0.40	0.50	0.60	0.75	0.80	0.90	1.00	1.20	1.50	2.00	2.50	3.00	4.00
PGA	0.72/0.70	0.72/0.70	0.72/0.70	0.71/0.70	0.71/0.70	0.71/0.70	0.71/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.70/0.72	0.69/0.72	0.69/0.73	0.69/0.72	0.70/0.72	0.70/0.71	0.70/0.71
PGV	0.70/0.71	0.70/0.71	0.70/0.71	0.70/0.71	0.70/0.71	0.70/0.72	0.70/0.72	0.69/0.72	0.69/0.72	0.69/0.72	0.69/0.73	0.69/0.73	0.69/0.73	0.69/0.72	0.69/0.72	0.69/0.72	

(a/b) denotes the first principal component coefficient, where *a* refers to the row intensity measure and *b* refers to the column intensity measure.