

Table 2 The result of the TOPSIS method

	WuXi	YangZhou	NanJing	HeFei	TaiZhou	NingBo	WenZhou
The separation from positive ideal alternative	0.0048	0.0088	0.0010	0.0142	0.02289	0.0108	0.0172
The separation from negative ideal alternative	0.0120	0.0114	0.0246	0.0068	0.0014	0.0107	0.0032
the indicated value	0.7143	0.5644	0.9609	0.3246	0.0576	0.4977	0.1569
rank	2	3	1	5	7	4	6

Table 3 The weighted comprehensive scores of the Rumania selection method

	WuXi	YangZhou	NanJing	HeFei	TaiZhou	NingBo	WenZhou
The weighted comprehensive scores	96.32	72.24	116.25	41.30	45.91	86.80	61.53

Table 4 The precedence relation matrix

	WuXi (X_1)	YangZhou (X_2)	NanJing (X_3)	HeFei (X_4)	TaiZhou (X_5)	NingBo (X_6)	WenZhou (X_7)
WuXi (X_1)	1	1	0	1	1	1	1
YangZhou (X_2)	0	1	0	1	1	1	1
NanJing (X_3)	1	1	1	1	1	1	1
HeFei (X_4)	0	0	0	1	1	0	0
TaiZhou (X_5)	0	0	0	0	1	0	0
NingBo (X_6)	1	1	0	1	1	1	1
WenZhou (X_7)	0	0	0	1	1	0	1

According to the result above, the rank of the seven cities about the national happiness index is

NanJing>WuXi>YangZhou>NingBo>HeFei>WenZhou>TaiZhou .

The result of the Rumania selection method is as Table 3.

According to the result above, the rank of the seven cities about the national happiness index is

NanJing>WuXi>NingBo>YangZhou>WenZhou>TaiZhou>HeFei .

The result of the project queuing method based on evaluating relative position is as Table 4.

According to the precedence relation matrix, calculate the indicated value of each solution. The result is as follows:

$V_1 = 3, V_2 = 1, V_3 = 6, V_4 = -4, V_5 = -6, V_6 = 2, V_7 = -2$. The rank of the seven cities about the national happiness index is

NanJing>WuXi>NingBo>YangZhou>WenZhou>HeFei>TaiZhou .

5. Conclusions

The evaluation methods evaluate the differences of each evaluation object comprehensively. So the difference is greater, the result is better. The difference by the Rumania

selection method and the project queuing method based on evaluating relative position is greater than that by the TOPSIS method. The rank of WuXi and NanJing is the same by these three methods. NanJing is NO.1, WuXi is NO.2, and the others are not in accordance with each other by different methods.

References

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