

**Table S1 Analysis results of each method**

factors	Quadratic polynomial stepwise regression	Stepwise regression item factors and interactions	Many factor and squared regression step by step	Stepwise regression
<i>p</i>	0.0112	0.0040	0.0364	0.2998
<i>r</i>	0.9999	0.9999	0.9998	0.9312
<i>d</i>	1.8234	1.7351	1.0412	1.8205

$p < 0.05$  indicating a significant difference;

The closer the absolute value of *r* is closer to 1, the higher the degree of correlation between variables;

*d* statistics shows that residual is around 2 to obey normal distribution.