Experts' disciplinary background information

The ten scoring experts—affiliated with Shaanxi Normal University, Shanxi University of Finance and Economics, Jiangxi University of Science and Technology, Jiangsu Normal University, and similar institutions—are all scholars specializing in urban–rural planning and human geography. They have no conflicts of interest with this study and possess the requisite expertise to perform the weighting assessments.

Description of the final weight calculation method

First, the subjective weights w_j are obtained through the AHP method; then, the objective weights w_j' for each indicator are derived via the entropy-weight method. The final weight w is taken as the arithmetic mean of the subjective and objective weights. The calculation formula is as follows:

$$\boldsymbol{w} = \frac{w_j + w_j'}{2}$$

Please refer to Equations (1)–(5) in the manuscript for the detailed steps of the entropy-weight method.