

Evaluation on Social Vulnerability to Natural DisastersXuxian Yan¹ and Xianjun Li²¹*College of Management Science and Engineering, Shanxi University of Finance and Economics, Taiyuan 030006, China**E-mail: yanxux@163.com*²*School of Mathematics and Systems Science, Beihang University, Beijing 100191, China***KEYWORDS** China. Evaluation Index System. Projection Pursuit. Social Vulnerability Assessment. Spatial Patterns

ABSTRACT Recently, the study about social vulnerability of human system and coupled human-environmental system has become more popular in the field of vulnerability research and sustainability science. In this paper, the researchers discuss the progress of social vulnerability research about characteristics, analytical frameworks, and assessment methods of social vulnerability. Then the researchers make comprehensive evaluation of social vulnerability by using factor analysis method, the data was collected from 31 provinces in China during 2000-2011. The result shows that the evaluation index of social vulnerability in four aspects, such as basic social development pattern and social security vulnerability, social stratification and population vulnerability, regional health vulnerability and disadvantaged groups vulnerability. On this basis, the researchers analyze the regional difference and spatial pattern from these four aspects, and makes comprehensive evaluation of social vulnerability to natural disasters.