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Multidimensional scaling (MDS) is a technique to reduce the number of dimensions used to describe a set of objects. In the process of decreasing the number of dimensions, MDS tries to minimize the variance of distances among the objects in the data set. MDS is widely used in the field of data reduction to reduce dimensions (Al-Katib, Al-Inany, & Al-Mubashshir, 2019; Evans, 1987). MDS is an iterative technique that is executed repeatedly by scaling distances between objects as described in the process (Hair et al., 2016, Hair, Wolfinbarger, & Ortinall, 2008). The roots of MDS are in psychometric philosophy and (Simon, 1955), where it was developed as a technique for psychometric evaluation of multidimensional tests. MDS was applied to analyze evidence in important cases such as the cases of trading and racial discrimination in the 1960s by sociologists (Rokeach, 1966; Wallerstein, 1960; Wilson, 1962), through the analyses of race and religion (Sowell, 2013) to investigate the presence of a single underlying dimension for public opinion in many areas of the study (Berry & Wenner, 1980). A hierarchical clustering technique which we use in the model is the Ward method (1961). The method is a convenient way to partition a set of points into a series of clusters. Ward's method is widely used in exploratory data analysis for partitioning a set of data into clusters. Ward's method works by computing an objective function, the intracluster distance. The distance metric is used in the construction of a dendrogram (Jensen, 2001).

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Participants' demographic characteristics and the scale-test results were analyzed using descriptive statistics and multivariate analysis. A chi-square test (χ2) was used for dichotomous and nominal variables, and t tests were used for continuous variables. The significance level of 0.05 was considered for all statistical tests. The analysis was performed using PASW (SPSS for Windows, Version 24.0). Dependent variables were measured using the two subscales of the PS-JW, and were entered into a hierarchical regression analysis. The first regression analysis was conducted to determine whether the independent variables accounted for the dependent variables. The second analysis was performed to determine the predictive power of the models. To control for the effects of gender on the results, we created gender-specific models. After extracting the significant predictors from the initial analysis, we performed a multivariate analysis of variance (MANOVA) to determine the significant differences in the PS-JW subscales based on the demographic characteristics of the participants and the characteristics of the post-disaster environment. Covariance eigenvalue decomposition is used to help interpret the results of multivariate analysis. This procedure is known as EDF (Exploratory Data Analysis). When the EDF is employed, three graphical methods such as scatterplot, factor curve and 3D PCA are the most useful to get a better understanding of the data. The purpose of scatterplot is to identify the pattern of a multivariate variable and it can also describe the dimensional structure of data. When there is a clustering of points in this diagram, it indicates the existence of possible factor structures. A factor that represents the maximum variance (thus of meaningful variation) is called significant in the factor analysis diagram. As EDF provides the relationship among the factors, it helps to interpret the pattern in the plot. This plot also enables to know how the factors are interrelated in a simplified way.

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