

Interactive comment on “Exploratory data analysis and clustering of multivariate spatial hydrogeological data by means of GEO3DSOM, a variant of Kohonen’s Self-Organizing Map” by L. Peeters et al.

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The paper presents an update to the SOF algorithm for clustering data. It is well written and structured, and presents material clearly and convincingly demonstrates the advantages of the approach; this is shown on a case study. At the same time editor supports the reviewers’ comments that have to be addressed. Additionally it is suggested to stress the advantages/disadvantages of k-means and fuzzy c-means clustering, if compared to SOM.

Minor editorial comments: - p.2: "(Kohonen, 1995)," → "(Kohonen, 1995) that" - p.2, caption of fig.1a: "initialization of reference vectors" - it is suggested to mention to make clearer the use of terms "matching unit", "unit" and "reference vector" - p.3: "Is assigned to his" → "is assigned to its" - p.3: "equal to the standard" → "equal to that of the standard" - p.4: caption to Table 1: change to "Clusters in the theoretical data set" - p.4: "an other by" → "another one by" - p.5: "average total Euclidean distance": is "total" necessary? - p.5: explain "geographical distance" - p.9: correct double "the", correct "??"

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Interactive Discussion

Discussion Paper