Corrigendum to: “On soft preopen sets and soft pre separation axioms, Gazi University Journal of Science, 27(4) (2014), 1077-1083.”

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The authors of [1] concluded in Example 1 that \( \tau \) is a soft topology over \( X = \{x_1, x_2, x_3, x_4\} \) with respect to the set of attributes \( E = \{e_1, e_2, e_3\} \). In fact, their conclusion is incorrect. For instance, the soft sets \((F_{13}, E)\) and \((F_{14}, E)\) are in the collection \( \tau \) but \((H, E) = (F_{13}, E) \cup (F_{14}, E) \) where \((H, E) = \{(e_1, \{x_1\}), (e_2, \{x_2, x_3, x_4\}), (e_3, \{x_1, x_2\})\} \) not belongs to the same collection \( \tau \). In order to achieve the goal of [1, Example 1], let \( X = \{x_1, x_2, x_3, x_4, x_5\} \) be a universe and \( E = \{e\} \) be the singleton attributes set. Define the collection \( \tau = \{\emptyset, \bar{X}, (F_1, E), (F_2, E), (F_3, E)\} \), where \((F_1, E)\), \((F_2, E)\) and \((F_3, E)\) are soft sets over \( X \) defined as follows:

\[
(F_1, E) = \{(e, \{x_1\})\}, \\
(F_2, E) = \{(e, \{x_3, x_4\})\}, \\
(F_3, E) = \{(e, \{x_1, x_3, x_4\})\}.
\]

Then \( \tau \) is a soft topology. Let \((H, E)\) be a soft set over \( X \) defined by \((H, E) = \{(e, \{x_3\})\}\), then \((H, E)\) is a soft pre-open set but not soft open.

Conflict of Interests

The authors declare that there is no conflict of interests regarding the publication of this paper.

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