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Correction

Correction: Generalized primal topological spaces

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Abstract: The purpose of this note is to give some mistyping corrections for our published article in [1].

Keywords: generalized primal topology; generalized primal neighbourhood; $(\mathfrak{g}, \mathcal{P})$-open sets; $cl^{\diamond}$-operator; Φ-operator
Mathematics Subject Classification: 54A05, 54A10, 54A20

A correction on

Generalized primal topological spaces,
by Hanan Al-Saadi and Huda Al-Malki. AIMS Mathematics, 2023, 8(10): 24162–24175.
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These errata give the following correct statements for the corresponding statements on the cited page of our published article [1].

The description of Examples 3.1–3.3 on pages 24165 and 24166 in [1] is incomplete, now it is corrected as below:

Example 0.1. *Consider* $X = \{a, b, c\}$, $\mathfrak{g} = \{\phi, \{a, b\}, \{a, c\}, X\}$ *and the primal set* $\mathcal{P} = \{\phi, \{a\}, \{b\}, \{a, b\}\}$. *Hence,* $(X, \mathfrak{g}, \mathcal{P})$ *is a generalized primal topological space.*

Example 0.2. *Consider*

$$X = \{a, b, c\}, \quad \mathfrak{g} = \{\phi, \{a\}, \{b\}, \{a, b\}, X\}$$

and

$$\mathcal{P} = \{\phi, \{a\}, \{b\}, \{c\}, \{a, b\}, \{a, c\}\}.$$

Let $A = \{a, b\}$. *Then,* $A^{\diamond} = \{b, c\}$. *Therefore,* $A^{\diamond} \nsubseteq A$ *and* $A \nsubseteq A^{\diamond}$.

Example 0.3. *Consider*

$$X = \{a, b, c\}, \quad \mathfrak{g} = \{\phi, \{a\}, \{b\}, \{a, b\}, X\}$$

and

$$\mathcal{P} = \{\phi, \{a\}, \{b\}, \{c\}, \{a, b\}, \{a, c\}\}.$$

Let $A = \{a, b\}$ *and* $B = \{c\}$. *Then,*

$$A^\diamond = \{b, c\} \text{ and } B^\diamond = \{c\}.$$

Thus, $A^\diamond \cap B^\diamond = \{c\}$ *and* $(A \cap B)^\diamond = \phi$. *Therefore,*

$$A^\diamond \cap B^\diamond \nsubseteq (A \cap B)^\diamond.$$

Conflict of interest

The authors declare no conflicts of interest.

References

1. Hanan Al-Saadi, Huda Al-Malki, Generalized primal topological spaces, *AIMS Math.*, **8** (2023), 24162–24175. https://doi.org/10.3934/math.20231232