

Corrections to “Energy-Efficient Multicodebook-Based Backscatter Communications for Wireless-Powered Networks”

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The detail of the function PEO(.) in Section IV-B for this article was not available at the time of publication. It appears in Section IV-B as follows.

function $[F^*, W^*] = \text{PEO}(F, \alpha, \theta, \mathbb{R})$

- 1: $S_{edge} \leftarrow$ all edge branch nodes in F
- 2: $S_{leaf} \leftarrow$ all leaves in F
- 3: $W^* \leftarrow 0$
- 4: **while** $|S_{edge}| > 0$ **do**
- 5: Pick an edge branch node $A \in S_{edge}$.
- 6: $S_{edge} \leftarrow S_{edge} - A$
- 7: $S \leftarrow S_{leaf} - \text{Child}(A)$
- 8: **while** $|S| > 0$ **do**
- 9: Pick a leaf $B \in S$.
- 10: $S \leftarrow S - B$
- 11: Perform PEO on edge branch node A and leaf B to generate a new forest F' .
- 12: **if** $\zeta(F', \mathbb{R}) > \theta$ **then**
- 13: Continue
- 14: **end if**
- 15: $W_1 = \delta(F, F', \alpha)$
- 16: **if** $W_1 > W^*$ **then**
- 17: $F^* \leftarrow F', W^* \leftarrow W_1$
- 18: **end if**
- 19: **end while**
- 20: **end while**
- 21: **return** F^*, W^* .

REFERENCE

- [1] Y. Zhang, X. Liu, K. Zheng, Y. Li, and Y. Yao, “Energy-efficient multicodebook-based backscatter communications for wireless-powered networks,” *IEEE Internet Things J.*, vol. 9, no. 18, pp. 18153–18163, Sep. 2022.

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