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Summary: A. Jha et al. [Inf. Process. Lett. 145, 30–38 (2019; Zbl 1451.05177)] devised a linear algorithm to compute the secure domination number of a cograph. Here it is shown that their Lemma 2, which is crucial for the computational complexity of the algorithm, is incomplete. An accordingly modified lemma is proved and it is demonstrated that the complexity of the modified algorithm remains linear.

MSC:
05C69 Vertex subsets with special properties (dominating sets, independent sets, cliques, etc.)
05C85 Graph algorithms (graph-theoretic aspects)
68Q25 Analysis of algorithms and problem complexity

Keywords:
domination number; secure domination number; cograph; algorithm; computational complexity

Full Text: DOI arXiv

References:
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