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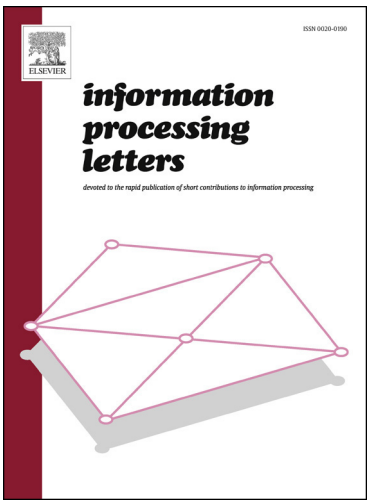

Succinct data structures for nearest colored node in a tree

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Highlights

- We give a data-structure that stores a tree with colors on the nodes. Given a node x and a color α, the structure finds the nearest node to x with color α.
- The structure is succinct, namely its space complexity is very near to the optimal space required to store the tree.
- This structure improves the $O(nlogn)$-bits structure of Gawrychowski et al. [CPM 2016].

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