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Comments on "Detection of connectivity for regions represented by linear quadtrees".

Summary: In a recent paper by I. Gargantini [ibid. 8, 319-327 (1982; Zbl 0487.68060)] an algorithm for evaluating the connected regions of an image represented as a linear quadtree is presented. This note observes a case where the algorithm fails to provide the correct solution. A modified form is offered together with an analysis of worst-case complexity.

MSC:
68R99 Discrete mathematics in relation to computer science
68P05 Data structures

Keywords:
image processing; connected regions; linear quadtree; worst-case complexity

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References:

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