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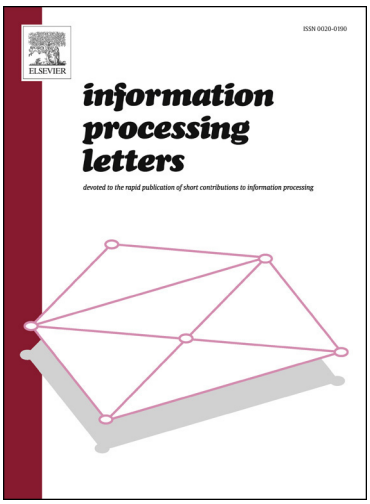

Small polyomino packing

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Highlights

- We show that it is NP-complete to determine whether a set of polyominoes can be packed into a rectangle even when only pieces of logarithmic area are used.
- Equivalently, we show that the problem of of "small polyomino packing", this being the packing problem where the polyominoes used are the n smallest polyominoes and the inputs are their multiplicities, is strongly NP-complete.
- We further consider other types of input specifications, as well as variations on the target shape, and show that NP-completeness is preserved for these, too.