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Uniform approach to Euler and Leighton bound optimization

Content :

We present the uniform approach to Euler and Leighton bound optimization through new operator $L(p,w)$. We focus on special cases of this operator. One special case is that we can investigate weighted subgraph of G that yields the maximum Euler bound for the crossing number of G . We prove that there always exists an integer optimal solution for this optimization problem. This means that the solution can be interpreted as the subgraph of G that is not weighted. We also observe the same problem through the linear program which finds the same optimal solutions.

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