

## Minimum Cut in Directed Planar Networks

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*Abstract:* An algorithm which for any planar directed network with  $n$  nodes finds its minimum cut in time  $O(n \log^2(n) / \log(\log(n)))$  is presented. For the case of  $s$ - $t$  -network this time is reduced by the factor of  $\log(n)$ , i. e. to  $O(n \log(n) / \log(\log(n)))$ .

*Keywords:*

*AMS Subject Classification:*