

Broadcast and network optimization : essays on approximation algorithms and experiments on problems in latency cover, network fragmentation and routing on the internet

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STELLINGEN

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BROADCAST AND NETWORK OPTIMIZATION

door

G.R.J. van der Zwaan

1. The bottleneck of the algorithm for Generalized Min Sum Set Cover is the transformation of preemptive schedules to non-preemptive schedules. (Chapter 4)
2. Simple proofs are a goal in itself. (Chapter 5)
3. Changing perspective is often crucial. Through the lens of smoothed analysis an elegant and efficient algorithm for Path Trading is immediately apparent. (Chapter 7)
4. The k-Way Vertex Cut problem can be solved efficiently on interval graphs but is significantly harder on split graphs. (Chapter 8)
5. “Mathematics is the art of giving the same name to different things.” - *Henry Poincaré*
6. Operations research is the proof that beautiful mathematics can be used to answer down-to-earth questions.
7. Teaching is an essential part of research.
8. If your paper is a ship, then a good story is a sail: without it you have to row for months.
9. Asking the right question is as important as finding the right answer.
10. Searching professionally for efficient solution methods does not mean that the search is efficient.

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