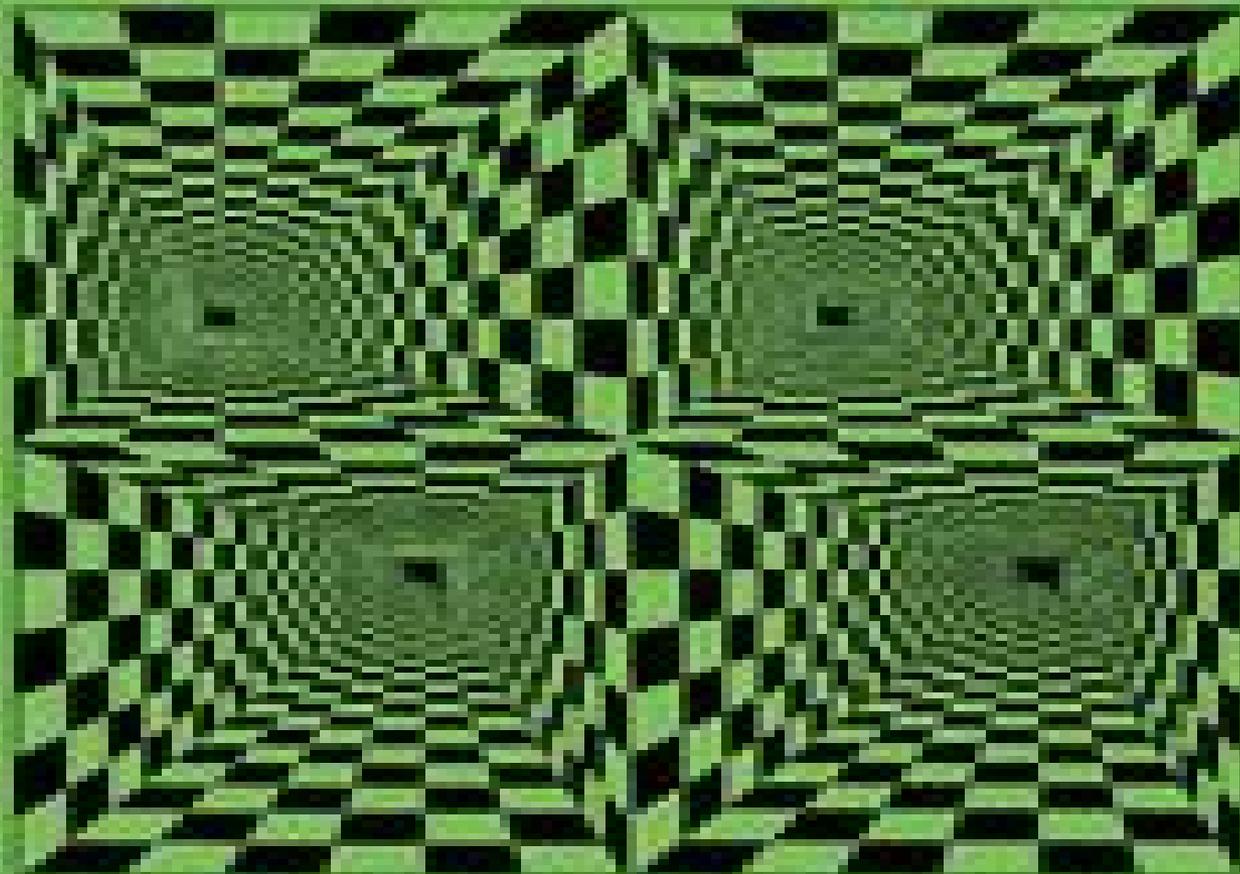


# EFFICIENT PARALLEL ALGORITHMS

ALAN GIBBONS & WOJCIECH RYTTER



# Efficient Parallel Algorithms

**Wenbin Ji**



## Efficient Parallel Algorithms:

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can be obtained automatically from sequential programs using compilers However there is a large class of problems irregular  
problems that lack efficient solutions IRREGULAR 94 a workshop and summer school organized in Geneva addressed the  
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processor failures The requirement of efficiency commonly formalized using Parallel time  $\times$  Processors as a cost measure has  
led to the design of highly tuned PRAM algorithms which given the additional constraint of simple processor failures  
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for solving two graph layout problems Find a Fry Embedding on a grid and construct a rectangular dual for planar graphs  
The algorithm for the first problem takes  $O(\log n \log^{\superscript{n}} n)$  time with  $O(n)$  processors on a PRAM The algorithm for the

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