



# DIMACS

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Volume 50

## External Memory Algorithms

DIMACS Workshop  
External Memory Algorithms and Visualization  
May 20–22, 1998

James M. Abello  
Jeffrey Scott Vitter  
Editors



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American Mathematical Society

# External Memory Algorithms Dimacs Workshop External Memory And Visualization May 20 22 1998

**James M. Abello, Jeffrey Scott Vitter**



## **External Memory Algorithms Dimacs Workshop External Memory And Visualization May 20 22 1998:**

External Memory Algorithms James M. Abello, Jeffrey Scott Vitter, 1999-01-01 This volume presents new research results and current techniques for the design and analysis of external memory algorithms Topics presented include problems in computational geometry graph theory data compression disk scheduling linear algebra statistics software libraries text and string processing visualization wavelets and industrial applications

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acquires analyses and processes data in a manner that is free of the constraints of any particular analysis technique while at the same time facilitating these techniques where appropriate Constraints are applied by defining a workflow based on the production interpretation and consumption of data This supports the application of different analysis techniques on the same raw data without the danger of incorporating hidden bias that may exist To illustrate and to realise this approach a software platform has been created that allows for the transparent analysis of data combining analysis techniques with a maintainable record of provenance so that independent third party analysis can be applied to verify any derived conclusions In order to demonstrate these concepts a complex real world example involving the near real time capturing and analysis of neurophysiological data from a neonatal intensive care unit NICU was chosen A system was engineered to gather raw data analyse that data using different analysis techniques uncover information incorporate that information into the system and curate the evolution of the discovered knowledge The application domain was chosen for three reasons firstly because it is complex and no comprehensive solution exists secondly it requires tight interaction with domain experts thus requiring the handling of subjective knowledge and inference and thirdly given the dearth of neurophysiologists there is a real world need to provide a solution for this domain

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