

## Accepted Manuscript

Optimizing nonzero-based sparse matrix partitioning models via reducing latency

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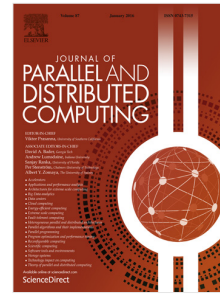
PII: S0743-7315(18)30586-0  
DOI: <https://doi.org/10.1016/j.jpdc.2018.08.005>  
Reference: YJPDC 3932

To appear in: *J. Parallel Distrib. Comput.*

Received date: 22 November 2017  
Revised date: 18 May 2018  
Accepted date: 5 August 2018

Please cite this article as: S. Acer, et al., Optimizing nonzero-based sparse matrix partitioning models via reducing latency, *J. Parallel Distrib. Comput.* (2018), <https://doi.org/10.1016/j.jpdc.2018.08.005>

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- Optimizing fine-grain hypergraph model to reduce bandwidth and latency
- Optimizing medium-grain hypergraph model to reduce bandwidth and latency
- Message net concept to encapsulate minimization of total message count
- Practical enhancements to establish a trade-off between bandwidth and latency
- Significant performance improvements validated on nearly one thousand matrices

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