Adaptive Partitioning of Large-Scale Dynamic Graphs
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Problem Statement
- Large-Scale Dynamic Graph Processing
- Graph partitioning impacts computation performance
- Graph changes degrade quality of partitioning

Approach
- Iterative partitioning optimization
- Vertex-level decision, greedy migration
- Adaptive partitioning: Trigger migration decisions as the graph changes
- Computation and partitioning joint execution loop

Experiments
- Performance comparison with hash partitioning

Conclusions
- Migration overhead noticeable on initial steps
- Computation time stabilizes on frequent graph changes
- Vertex migrations improve computation performance

References