

Practical Parallel Hypergraph Algorithms

Julian Shun
jshun@mit.edu
MIT CSAIL

Abstract

While there has been significant work on parallel graph processing, there has been very surprisingly little work on high-performance hypergraph processing. This paper presents a collection of efficient parallel algorithms for hypergraph processing, including algorithms for betweenness centrality, maximal independent set, k -core decomposition, hypertrees, hyperpaths, connected components, PageRank, and single-source shortest paths. For these problems, we either provide new parallel algorithms or more efficient implementations than prior work. Furthermore, our algorithms are theoretically-efficient in terms of work and depth. To implement our algorithms, we extend the Ligra graph processing framework to support hypergraphs, and our implementations benefit from graph optimizations including switching between sparse and dense traversals based on the frontier size, edge-aware parallelization, using buckets to prioritize processing of vertices, and compression. Our experiments on a 72-core machine and show that our algorithms obtain excellent parallel speedups, and are significantly faster than algorithms in existing hypergraph processing frameworks.

CCS Concepts • Computing methodologies → Parallel algorithms; Shared memory algorithms.

1 Introduction

A graph contains vertices and edges, where a vertex represents an entity of interest, and an edge between two vertices represents an interaction between the two corresponding entities. There has been significant work on developing algorithms and programming frameworks for efficient graph processing due to their applications in various domains, such as social network and Web analysis, cyber-security, and scientific computations. One limitation of modeling data using graphs is that only binary relationships can be expressed, and can lead to loss of information from the original data. Hypergraphs are a generalization of graphs where the relationships,

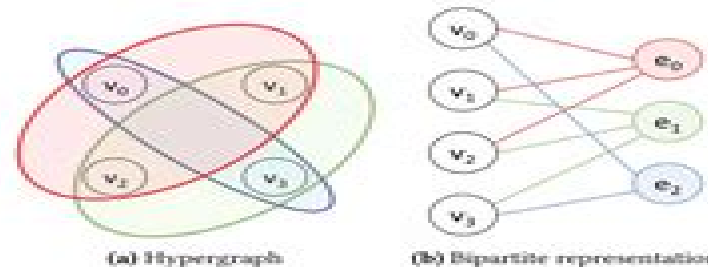


Figure 1. An example hypergraph representing the groups $\{v_0, v_1, v_2\}$, $\{v_1, v_2, v_3\}$, and $\{v_0, v_3\}$, and its bipartite representation.

represented as *hyperedges*, can contain an arbitrary number of vertices. Hyperedges correspond to group relationships among vertices (e.g., a community in a social network). An example of a hypergraph is shown in Figure 1a.

Hypergraphs have been shown to enable richer analysis of structured data in various domains, such as protein network analysis [76], machine learning [100], and image processing [15, 27]. Various graph algorithms have been extended to the hypergraph setting, and we list some examples of algorithms and their applications here. Betweenness centrality on hypergraphs has been used for hierarchical community detection [12] and measuring importance of hypergraphs vertices [77]. k -core decomposition in hypergraphs can be applied to invertible Bloom lookup tables, low-density parity-check codes, and set reconciliation [45]. PageRank and random walks on hypergraphs have been used for image segmentation and spectral clustering and shown to outperform graph-based methods [26, 27, 100]. Shortest paths, hyperpaths, and hypertrees have been used for solving optimization problems [30, 70], satisfiability problems and deriving functional dependencies in databases [30], and modeling information spread and finding important actors in social networks [31]. Independent sets on hypergraphs have been applied to routing problems [2] and determining satisfiability of boolean formulas [48].

Although there are many applications of hypergraphs, there has been little research on parallel hypergraph processing. The main contribution of this paper is a suite of efficient parallel hypergraph algorithms, including algorithms for betweenness centrality, maximal independent set, k -core

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 https://doi.org/10.1145/3332466.3374527

978-1-4503-6818-6/20/02...\$15.00

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