



# A parallel space saving algorithm for frequent items and the Hurwitz zeta distribution

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## ABSTRACT

We present a message-passing based parallel version of the space-saving algorithm designed to solve the  $k$ -suggesting problem. The algorithm determines in parallel frequent items, i.e., those whose frequency is greater than a given threshold, and it therefore works for counting queries and many other different scenarios. We apply our algorithm to the detection of frequent items in both real and synthetic datasets whose probability distributions feature zero-Hurwitz and a dual distribution respectively. Also, we compare its parallel performance with currently used parallel algorithms recently proposed for counting queries and frequent items.

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## 1. Introduction

Discovering frequent items is a data mining problem that attracted many researchers, owing to its relevance for applications in several domains. This problem is a  $k$ -suggester in the literature, depending on the specific application, as for the methods [1], market basket analysis [2] and web page [3]. Additionally, applications include network traffic analysis [4,5,6]. The analysis of web logs [7], Computational and theoretical Linguistics [8], ecological field studies [9], etc. Several sequential references have been provided, in their turn [10]. Cormode and Muthukrishnan classify existing algorithms as being either counter or sketch based. Miura and Cole [11] proposed the first counter-based sequential algorithm, which has been rediscovered independently by Demetres et al. [12] and Karp et al. [13]. Recently designed counter-based algorithms include CountSketch [14] and Space Saving [15]. In particular, Space Saving has been shown to be the most efficient and accurate algorithm among counter-based ones [16], which motivates our choice of designing a parallel version of this algorithm. Multiple sketch-based solutions are CountSketch [17] and CountMin [18]. In the parallel setting, we presented in [19] a message-passing based parallel version of the frequent algorithm, while [20] presents a shared-memory parallel version. A parallel version of the Lossy Counting algorithm has been proposed in [21]. Parallel versions of the Space-Saving algorithm for shared-memory architectures have been designed in [22] and [23]. A GPU Sketching Processing Unit accelerated algorithm for frequent items appeared in [24] and [25]. Novel shared-memory parallel algorithms for frequent items were recently proposed in [26].

A similar problem, finding frequent elements, is strongly related to the problem of association patterns mining, which originates from the analysis of market basket data. Such datasets are frequently used to be bought by customers, traditionally referred to as transactions. Association patterns mining entails discovering item sets called association rules that occur in a set of items. Frequent

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