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A refined complexity analysis of degree anonymization in ...
Based on this, we develop a polynomial-time data reduction yielding a polynomial-size problem kernel for Degree Anonymity parameterized by the maximum vertex degree. In terms of parameterized complexity analysis, this result is in a sense tight since we also show that the problem is already NP-hard for H-index three, implying NP-hardness for smaller parameters such as average degree and degeneracy.

Parameterized Complexity of k-Anonymity: Hardness and ...
Abstract The problem of publishing personal data without giving up privacy is becoming increasingly important. A precise formalization that has been recently proposed is the k-anonymity where the rows of a table are partitioned in clusters of size at

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k and all rows in a cluster become the same tuple after the suppression of some entries.

Parameterized Complexity Of K Anonymity

A precise formalization that has been recently proposed is the k-anonymity, where the rows of a... Parameterized complexity of k-anonymity: hardness and tractability | SpringerLink Skip to main content

(PDF) Parameterized Complexity of the k-anonymity Problem ... Parameterized Complexity of the k-anonymity Problem: Authors: Beretta, Stefano ... In this paper we study how the complexity of the problem is influenced by different parameters. ... when the

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problem is parameterized by the size of the alphabet and the number of columns. Finally, we investigate the computational (and approximation) complexity ...

Parameterized Complexity of k-Anonymity: Hardness and ...
parameterized complexity of k-Anonymity on tabular data with numerous tractability and intractability results [5,6,9,17]. 2. Preliminaries Parameterized complexity. A parameterized problem is called xed-parameter tractable if there is an algorithm that decides any instance $(I;k)$, consisting of the "classical" instance I and a parameter $k \in \mathbb{N}$

The Complexity of Degree Anonymization by Graph Contractions
the k-anonymity concept from tabular data in databases [11] to

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graphs. Herein, Liu and Terzi [15] require that a released graph contains for every vertex at least $k-1$ other vertices with the same degree.

(PDF) Parameterized Complexity of the k-anonymity Problem
The problem of publishing personal data without giving up privacy is becoming increasingly important. An interesting formalization that has been recently proposed is ...

Parameterized Complexity of the k-anonymity Problem
Parameterized Complexity of the k-anonymity Problem By
Stefano Beretta, Paola Bonizzoni, Gianluca Della Vedova,
Riccardo Dondi and Yuri Pirola No static citation data No static
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Parameterized complexity - Wikipedia

In this paper we study how the complexity of the problem is influenced by different parameters. First we show that the problem is $W[1]$ -hard when parameterized by the value of the solution (and k). Then we exhibit a fixed-parameter algorithm when the problem is parameterized by the number of columns and the number of different values in any column.

Parameterized complexity of k -anonymity: hardness and ... of the parameterized complexity of the k -anonymity problem has been proposed in [7]. Here, we follow the same direction, show that the problem is $W[1]$ -hard when parameterized by the

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A refined complexity analysis of degree anonymization in ...
On the Complexity of Optimal K-Anonymity ... We will see that k -anonymity admits a very clean formalization; it is simple to propose, and has a concrete privacy parameter k within its definition. In this work, we will consider the complexity of rendering relations of private records k -anonymous, ...

The Effect of Homogeneity on the Complexity of k -Anonymity
The main result there is a fixed-parameter tractable algorithm with respect to the maximum degree in the input graph. The problem of k -anonymizing an input graph by performing as few edge modification as possible, that is, edge switchings, edge deletions, and edge additions, was studied by Casas-Roma et al.

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On the Complexity of Optimal K-Anonymity - Desfontain

The parameterized complexity of k-anonymity has also been studied in [6] [7] [11] with respect to different parameters. Meyerson and Williams [21] gave an $O(k \log k)$ approximation algorithm for k ...

Parameterized Inapproximability of Degree Anonymization

The concept of parameterized complexity was pioneered by Downey and Fellows [7] (see also [8, 21] for more recent textbooks). $O, in f(k) \cdot |I|^{O(1)}$ time, for some computable function f solely depending on k . A core tool in the development of fixed-parameter algorithms is polynomial-time kernelization [3, 12].

Parameterized complexity of k-anonymity

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In this paper we study how the complexity of the problem is influenced by different parameters. First we show that the problem is $W[1]$ -hard when parameterized by the value of the solution (and k). Then we exhibit a fixed-parameter algorithm when the problem is parameterized by the number of columns a and the number of different values in any column.

The complexity of degree anonymization by ... - ScienceDirect
Hardness of k -anonymity. Optimal k -anonymity: Given a list of records, minimize the number of records suppressed, such that for each record r , there are $k - 1$ other records that are indistinguishable from r . We will give a reduction from k -dimensional perfect matching to the above problem.

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A Refined Complexity Analysis of Identity Anonymization on ...
Parameterized complexity. A parameterized problem is called fixed-parameter tractable if there is an algorithm that decides a instance (I, k) , consisting of the "classical" instance I and a parameter k ? $N O$, in $f(k) \cdot |I|^{O(1)}$ time, for some computable function f solely depending on k .

Parameterized Complexity of the k -anonymity Problem - CORE
This last work is of particular interest, as the concept of k -anonymity is a generalization of the notion of regularity (in particular, a graph is n -anonymous if and only if it is regular). Studying graph contractions in the context of degree anonymization is interesting for several reasons.

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On the Complexity of Optimal k -Anonymity

A parameterized problem that allows for such an fpt-algorithm is said to be a fixed-parameter tractable problem and belongs to the class FPT, and the early name of the theory of parameterized complexity was fixed-parameter tractability. Many problems have the following form: given an object x and a nonnegative integer k ,...

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