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Parameterized Complexity

Of K Anonymity, Hardness

And

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Hardness And

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Of k -Anonymity Hardness

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

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entries. The natural optimization problem, where the goal is to minimize the number of suppressed entries, is hard even when the stored values are over a binary alphabet or the table consists of a bounded number of columns.

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Parameterized Complexity of k-Anonymity: Hardness and ...

The problem of publishing personal data without giving up privacy is becoming increasingly important. A precise formalization that has been recently proposed

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of k -Anonymity hardness
And

is the k -anonymity, where the rows of a table are partitioned into clusters of sizes at least k and all rows in a cluster become the same tuple after the suppression of some entries. The natural optimization problem, where the goal is to minimize the

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The problem of publishing personal data without giving up

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privacy is becoming increasingly important. An interesting formalization that has been recently proposed is ...

(PDF) Parameterized Complexity of the k-anonymity Problem ...

Table 1: Summary of the

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parameterized complexity status of the k -anonymity problem; $|\Sigma|$ represents the maximum number of different values in a column, m represents the number of

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Hardness and Tractability | The problem of publishing personal data without giving up privacy is becoming increasingly important. A precise ...

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anonymity: hardness and
tractability. Share on. Authors:

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Complexity Of K Anonymity

Hardness And "classical" problem

instance land an integer k being

the parameter [13,21]. The

Complexity of Degree

Anonymization by Graph

Contractions Based on this, we

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develop a polynomial-time data reduction yielding a polynomial-size problem

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Parameterized Complexity of the k-anonymity Problem - CORE We

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investigate the parameterized complexity of (k, c) -Attribute-Anonymity when parameterized by c and k . We prove the following result. Theorem 1 (k, c) -Attribute-Anonymity, parametrized by k and c , is not in FPT unless $W[2] = \text{FPT}$. k -

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Attribute-Anonymity is hard even
for $k=2$ - ScienceDirect

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Problem A precise formalization that has been recently proposed is the k -anonymity, where the rows of a table are partitioned into clusters of sizes at least k and all rows in a cluster become the same tuple

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And
Then we exhibit a fixed
parameter algorithm, when the
problem is parameterized by the
size of the alphabet and the
number of columns. Finally, we
investigate the computational

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(and approximation) complexity of the k -anonymity problem, when restricting the instance to records having length bounded by 3 and $k=3$.

Parameterized Complexity of the k -anonymity Problem - NASA/ADS

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And complexity of the k-anonymity problem has been proposed in [7]. Here, we follow the same direction, showing that the problem is $W[1]$ -hard when parameterized by the (PDF)

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Based on this, we develop a polynomial-time data reduction yielding a polynomial-size problem kernel for Degree Anonymity parameterized by the

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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

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A refined complexity analysis of degree anonymization in ...

k-Anonymity in $O(nm + 2t \text{ in } \text{out} \text{ in } (t \text{ out} + t^2 \text{ in } \log(t \text{ in})))$
time, which compares favorably
with Bonizzoni et al.'s [5]

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algorithm running in $O(2^{j+1} m k m n^2)$ time. Since t is out in, this shows that k -Anonymity is fixed-parameter tractable when parameterized by t in. In particular, when t is a constant, our algorithm solves k -Anonymity in time linear in the size of

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of the Input. In contrast, when
And

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