

# Seminar Databasesystems

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## Seminar Databasesystems

### ABSTRACT

This paper is splitted in three parts, it begins with an overview of streams and their difficulties. Followed by a part about Apache Storm a distributed stream processing framework. And finally a concrete implementation based on a given problem with Storm. The goal of the implementation is to do some queries and analysis on the minutely updated Augmented Diffs of OpenStreetMap.

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# Introduction

During the MSE master degree the students have to absolve two seminars. The goal of these is to elaborate a theme on your own, discuss the result in group and write a paper about the topic.

The Databasesystems Seminar does a focus on streams and their processing. Stream processing is a strong growing subject in reference to the huge amount of data we are exposed and produce nowadays.

A big force in generating this data is the rapidly increasing amount of Internet of Things *IoT* sensors, the willingness of the people to populate a lot of personal information on social media platforms and also the expanding interest in data collection of companies.

With this amount of data new problems in collecting, processing, storing etc. appear and thus new solutions and technical tools to solve them appear too.

Quoteauthor Lastname

# 1

## Stream Processing

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$$\zeta = \frac{1039}{\pi}$$

*This is some random quote to start off the chapter.*

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# 2

## Apache Storm

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# 3

## Implementation

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# 4

## Conclusion