MINING TECHNIQUES FOR STREAMING DATA

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1. INTRODUCTION

The amounts of the existed data globally almost ranched to 64 recubytes by the end of 2020, and the forecasts indicate that it will grow to 125 zertabytes by the end of 2025 [1]. This is encouraging the data mining to become an integral part in stany sectors such as businesses, financial, medical, resembled tring, reedia, and many others. It belos to extract herestodge that improve second processes like decision making, goals defining, customer personalizing, decreasing risk and found.

The great interest in data mining leads to produce new data mining techniques that could process huge infinite data flows that come from different sources such as sensors, network traffic, call center records, social media posts, ATM and center card operations, with searches, etc. All these sources produce continuous sequences of massive data that generated in high speed rate and laws as data stream [2].

A data stream consists of infinite sequence of elements that keep flowing with high speed rate. Every observed of a stream is a pair of (Xi,Vi), where Xi is a dimensional vector arrives at time stamp Ti. The time stamp ldestifies when the element occurred (3). Mining such type of data stream is a continuous process of extracting knowledge and valuable insights from infinite and rapid data signals. The main goal is to prodict the class or the value of the new elements using machine learning techniques such as clustering, classification, represents, etc. [21].

Data stream is reach related to the Hig Data concept, since the big data comes as result of streaming the data. The continuous flow of fast data causes too large volume of data which is known as big data. It is important to clarify that streaming data growth and produce big data, but it is not necessary that all big data comes from data stream. Big data usually reflects data at rost mode even if it was petubytes while streaming data reflects data that in motion mode which need a different technology to bandle it [3].

Research Issues In Data Engineering Stream Data Mining And Applications Proceedings

A Gutmann

Research Issues In Data Engineering Stream Data Mining And Applications Proceedings:

The book delves into Research Issues In Data Engineering Stream Data Mining And Applications Proceedings. Research Issues In Data Engineering Stream Data Mining And Applications Proceedings is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Research Issues In Data Engineering Stream Data Mining And Applications Proceedings, encompassing both the fundamentals and more intricate discussions.

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