

Adaptive Stream Mining Pattern Learning And Mining From Evolving Data Streams Volume 207 Frontiers In Artificial Intelligence And Applications

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Adaptive Stream Mining

This book is a significant contribution to the subject of mining time-changing data streams and addresses the design of learning algorithms for this purpose. It introduces new contributions on several different aspects of the problem, identifying research opportunities and increasing the scope for applications. It also includes an in-depth study of stream mining and a theoretical analysis of ...

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Adaptive Stream Mining: Pattern Learning and Mining from Evolving Data Streams. January 2010; Frontiers in Artificial Intelligence and Applications 207:1-212; DOI: 10.3233/978-1-60750-472-6-i.

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Adaptive Stream Mining: Pattern Learning and Mining from Evolving Data Streams. Pages 1–212. Previous Chapter Next Chapter. ABSTRACT. No abstract available. References Tatsuya Asai, Hiroki Arimura, Kenji Abe, Shinji Kawasoe, and Setsuo Arikawa. Online algorithms for mining semistructured data stream.

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Adaptive stream mining : pattern learning and mining from evolving data streams Subject: Amsterdam [u.a.], IOS Press, 2010 Keywords: Signatur des Originals (Print): RR 4919(207). Digitalisiert von der TIB, Hannover, 2010. Created Date:

Adaptive Mining: Pattern Learning and Mining

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Sistemas Informatics` ... patterns in a data stream, using Galois Lattice Theory. Using this method-ology, we then develop an incremental one, a sliding-window based one, ...

Adaptive Learning and Mining for Data Streams and Frequent ...

ADWIN is an adaptive sliding window algorithm for detecting change and keeping updated statistics from a data stream, and use it as a black-box in place of counters in learning and mining algorithms initially not designed for drifting data. Advanced analysis of data streams is quickly becoming a key area of data mining research as the number of applications demanding such processing increases.

ADWIN Software « Adaptive Stream Mining

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Neuronal Networks and Deep learning are often considered as the non plus ultra in machine learning. However, Neural Networks are often not the perfect Big Data Stream mining. A Neural Network is trained with input data of any sample size for any task which includes classification, recognition, Natural Language Processing (NLP) and more.

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significant contribution to the subject of mining time-changing data streams and addresses the design of learning algorithms for this purpose.

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Adaptive Learning and Mining for Data Streams and Frequent Patterns We introduce a general methodology to identify closed patterns in a data stream, using Galois Lattice Theory. Using this methodology, we then develop an incremental one, a sliding-window based one, and finally one that mines closed trees adaptively from data streams. ...

Adaptive Learning and Mining for Data Streams and Frequent ...

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Buy Adaptive Stream Mining: Pattern Learning and Mining ...

Adaptive Stream Mining: Pattern Learning and Mining from Evolving Data Streams (Frontiers in Artificial Intelligence and Applications series) by A. Bifet. This book is a significant contribution to the subject of mining time-changing data streams and addresses the design of learning algorithms for this purpose.

This book is a significant contribution to the subject of mining time-changing data streams and addresses the design of learning algorithms for this purpose. It introduces new contributions on several different aspects of the problem, identifying research opportunities and increasing the scope for applications. It also includes an in-depth study of stream mining and a theoretical analysis of proposed methods and algorithms. The first section is concerned with the use of an adaptive sliding window algorithm (ADWIN). Since this has rigorous performance guarantees, using it in place of counters or accumulators, it offers the possibility of extending such guarantees to learning and mining algorithms not initially designed for drifting data. Testing with several methods, including Naive Bayes, clustering, decision trees and ensemble methods, is discussed as well. The second part of the book describes a formal study of connected acyclic graphs, or 'trees', from the point of view of closure-based mining, presenting efficient algorithms for subtree testing and for mining ordered and unordered frequent closed trees. Lastly, a general methodology to identify closed patterns in a data stream is outlined. This is applied to develop an incremental method, a sliding-window based method, and a method that mines closed trees adaptively from data streams. These are used to introduce classification methods for tree data streams."

The two-volume set LNAI 7818 + LNAI 7819 constitutes the refereed proceedings of the 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2013, held in Gold Coast, Australia, in April 2013. The total of 98 papers presented in these

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proceedings was carefully reviewed and selected from 363 submissions. They cover the general fields of data mining and KDD extensively, including pattern mining, classification, graph mining, applications, machine learning, feature selection and dimensionality reduction, multiple information sources mining, social networks, clustering, text mining, text classification, imbalanced data, privacy-preserving data mining, recommendation, multimedia data mining, stream data mining, data preprocessing and representation.

IDEAL 2008 was the ninth IDEAL conference to take place; earlier editions were held in Hong Kong, the UK, Australia and Spain. This was the first time, though hopefully not the last time, that it took place in Daejeon, South Korea, during November 2–5, 2008. As the name suggests, the conference attracts researchers who are involved in either data engineering or learning or, increasingly, both. The former topic involves such aspects as data mining (or intelligent knowledge discovery from databases), information retrieval systems, data warehousing, speech/image/video processing, and multimedia data analysis. There has been a traditional strand of data engineering at IDEAL conferences which has been based on financial data management such as fraud detection, portfolio analysis, prediction and so on. This has more recently been joined by a strand devoted to bioinformatics, particularly neuroinformatics and gene expression analysis. Learning is the other major topic for these conferences and this is addressed by researchers in artificial neural networks, machine learning, evolutionary algorithms, artificial immune systems, ant algorithms, probabilistic modelling, fuzzy systems and agent modelling. The core of all these algorithms is adaptation.

The book is devoted to the analysis of big data in order to extract from these data hidden patterns necessary for making decisions about the rational behavior of complex systems with the different nature that generate this data. To solve these problems, a group of new methods and tools is used, based on the self-organization of computational processes, the use of crisp and fuzzy cluster analysis methods, hybrid neural-fuzzy networks, and others. The book solves various practical problems. In particular, for the tasks of 3D image recognition and automatic speech recognition large-scale neural networks with applications for Deep Learning systems were used. Application of hybrid neuro-fuzzy networks for analyzing stock markets was presented. The analysis of big historical, economic and physical data revealed the hidden Fibonacci pattern about the course of systemic world conflicts and their connection with the Kondratieff big economic cycles and the Schwabe–Wolf solar activity cycles. The book is useful for system analysts and practitioners working with complex systems in various spheres of human activity.

This book constitutes the refereed proceedings of the 19th European Conference on Genetic Programming, EuroGP 2016, held in Porto, Portugal, in March/April 2016 co-located with the Evo*2016 events: EvoCOP, EvoMUSART, and EvoApplications. The 11 revised full papers presented together with 8 poster papers were carefully reviewed and selected from 36 submissions. The wide range of topics in this volume reflects the current state of research in the field. Thus, we see topics as diverse as semantic methods, recursive programs, grammatical methods, coevolution, Cartesian GP, feature selection, metaheuristics, evolvability, and fitness predictors; and applications including image processing, one-class classification, SQL injection attacks, numerical modelling, streaming data classification, creation and optimisation of

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circuits, multi-class classification, scheduling in manufacturing and wireless networks.

Contains a version of the author's PhD dissertation and focuses on proof methods and theorem proving for conditional and preferential logics. This book introduces proof methods (sequent and tableau calculi) for conditional and preferential logics, as well as theorem provers obtained by implementing the proposed calculi.

The two-volume set LNAI 9692 and LNAI 9693 constitutes the refereed proceedings of the 15th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2016, held in Zakopane, Poland in June 2016. The 134 revised full papers presented were carefully reviewed and selected from 343 submissions. The papers included in the first volume are organized in the following topical sections: neural networks and their applications; fuzzy systems and their applications; evolutionary algorithms and their applications; agent systems, robotics and control; and pattern classification. The second volume is divided in the following parts: bioinformatics, biometrics and medical applications; data mining; artificial intelligence in modeling and simulation; visual information coding meets machine learning; and various problems of artificial intelligence.

The two-volume set LNAI 7301 and 7302 constitutes the refereed proceedings of the 16th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2012, held in Kuala Lumpur, Malaysia, in May 2012. The total of 20 revised full papers and 66 revised short papers were carefully reviewed and selected from 241 submissions. The papers present new ideas, original research results, and practical development experiences from all KDD-related areas. The papers are organized in topical sections on supervised learning: active, ensemble, rare-class and online; unsupervised learning: clustering, probabilistic modeling in the first volume and on pattern mining: networks, graphs, time-series and outlier detection, and data manipulation: pre-processing and dimension reduction in the second volume.

This volume provides an overview of multimedia data mining and knowledge discovery and discusses the variety of hot topics in multimedia data mining research. It describes the objectives and current tendencies in multimedia data mining research and their applications. Each part contains an overview of its chapters and leads the reader with a structured approach through the diverse subjects in the field.

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