

APS

Scopus content | Elsevier

chat gpt 4 — Яндекс: нашлось

ChatGPT | OpenAI

UARES Scopus Q3

Classifying Historical Events Usi

ieeexplore.ieee.org/abstract/document/11032852

АвиабилетыЯндексGmailYouTubeКартыЯндекс: МаркетResidential VPN | Ту...РасширенияНовая вкладкаMapsAdobe AcrobatЯндексAdobe AcrobatВсе закладки

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites

Subscribe

Donate

Cart

Create Account

Personal Sign In

IEEE Xplore®

Browse

My Settings

Help

Institutional Sign In

IEEE

All

ADVANCED SEARCH

Conferences > 2025 International Conference...

Classifying Historical Events Using Support Vector Machines (SVM) and Decision Trees

Publisher: IEEE

Cite This

PDF

Bekhzodjon Zokirov ; Askariy Madraimov ; Nodira Alimukhamedova ; Dilshodbek Allayarov ; Ugiljon Qushnazarova ; Zilola Sattorova

All Authors

R

C

Abstract

Document Sections

I. Introduction

II. RELATED WORK

III. Proposed method

IV. Result and Discussion

V. Conclusion

Abstract:

Archives must be classified and categorized according to their classification to ensure effective retrieval and analysis of past data in digital libraries. This study uses Support Vector Machines classification and Decision Trees to assist with the classification while combining their benefits. The existing classification methods are plagued by high-dimensional data, event classification uncertainty, and huge computational expenses that reduce retrieval precision. These constraints interfere with the applications of historical archives in digital repositories. To remedy these problems, we introduce a hybrid SVM-DT method whose core is based on SVM's ability to cope with high-dimensional data and the interpretability of DT. The method begins by extracting and preprocessing historical event features of interest, uses SVM to optimize feature discrimination, and uses DT to achieve accurate classification. Computational effectiveness is achieved with improved classification accuracy using this hybrid approach. SVM-DT methodology enhances the infrastructure of electronic historical records and therefore enhances classification, search, and accessibility. The SVM-DT system facilitates historians and researchers in retrieving associated historical events with more accuracy through an optimized hybrid framework. Empirical test results demonstrate the

Need Full-Text

access to IEEE Xplore for your organization?

CONTACT IEEE TO SUBSCRIBE >

More Like This

Research on the Application of Support Vector Machines in High-Dimensional Data Mining

2025 8th International Conference on Advanced Algorithms and Control Engineering (ICAACE)

Published: 2025

Electroencephalogram recognition based on feature extraction of wavelet transform and machine learning: Based on

Feedback

Record high

ENG

14:43

23.06.2025