

## A Hierarchical Hybrid Svm Method For Classification Of

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### A Hierarchical Hybrid Svm Method

The focus of this work is on developing a new hierarchical hybrid Support Vector Machine (SVM) method to address the problems of classification of multi or hyper spectral remotely sensed images and provide a working technique that increases the classification accuracy while lowering the computational cost and complexity of the process.

### A Hierarchical Hybrid SVM Method for Classification of ...

In this paper, we present a new semi-automatic brain tissue segmentation method based on a hybrid hierarchical approach that combines a brain atlas as a priori information and a least-square support vector machine (LS-SVM). The method consists of three steps. In the first two steps, the skull is removed and the cerebrospinal fluid (CSF) is extracted.

### A Hybrid Hierarchical Approach for Brain Tissue ...

We propose a two-level hierarchical hybrid SVM-RVM model to combine the best of both learning machines. The proposed model first level uses an RVM to determine the less confident classified...

### Two-Level Hierarchical Hybrid SVM-RVM Classification Model ...

Hybrid method is proposed to solve reservoir operation optimization problem at future. SVM is equipped with constrained improved PSO algorithm to propose hybrid methods. SVM model is used for predicting water inflows or releases. Constrained improved PSO algorithm is proposed to satisfy problem constraints.

### Hybrid SVM-CIPSO methods for optimal operation of ...

Through this method, the virtual enemy is capable of performing actions that are highly likely to be made by an actual operator. To achieve this, we propose a hybrid sequence (HS) kernel-based hierarchical support vector machine (HSVM) for the behavior inference of aUCAV operator.

### Sustainability | Free Full-Text | A Hierarchical SVM Based ...

Much of the previous work about hybrid classification algorithms concentrated on combining various high performance classifiers in a hierarchical manner. As some examples, Silva and Ribeiro (2006) proposed a two-level hierarchical hybrid SVM-RVM model. The model first level uses an RVM (relevance vector machine) to determine the less confident classified examples and the second level makes use of an SVM to classify these texts.

### Two-level hierarchical combination method for text ...

Granular support vector machine Hierarchical and dynamical granulation HD\_GSVM model Density Radius abstract Support vector machine (SVM) has been a promising method for classification and regression areas due to its solid statistical foundations, such as margin maximization and kernel methods. However, SVM is

### Support vector machine based on hierarchical and dynamical ...

Currently, many prediction methods based on machine learning have been proposed to predict PPIs. In this article, we propose a novel method ACT-SVM that can effectively predict PPIs. The ACT-SVM model maps protein sequences to digital features, performs feature extraction twice on the protein sequence to obtain vector A and descriptor CT, and ...

### ACT-SVM: Prediction of Protein-Protein Interactions Based ...

descent method [Yamada 2001] in the computational fixed point theory is applicable to this much more complex hierarchical convex optimization problem. Index Terms—Support vector machine, multiclass classification, hierarchical convex optimization, proximal splitting operator, hybrid steepest descent method. I. INTRODUCTION

### A Hierarchical Convex Optimization for Multiclass SVM ...

The proposed algorithms are established by applying the hybrid steepest descent method to special nonexpansive operators designed through the art of proximal splitting. We also present applications of the proposed strategies to certain unexplored hierarchical enhancements of the support vector machine and the Lasso estimator.

### Hierarchical Convex Optimization by the Hybrid Steepest ...

This paper proposes a new hybrid least squares support vector machine and artificial bee colony algorithm (ABC-LS-SVM) for multi-hour ahead forecasting of global solar radiation data. The framework performs on training the LS-SVM model by means of ABC using measured data.

### A Novel Hybrid Model for Solar Radiation Forecasting using ...

uses SVMs in a hierarchical manner: the first SVM determines the behavior group of the corresponding vector and the second SVM provides the actual behavior in each group. Here, the behavior group consists of fire, velocity, and rotate.

**A Hierarchical SVM Based Behavior Inference of Human ...**

In this regard, we proposed an integral mechanism which is an hybrid Intrusion Detection approach based on anomaly, detection using support vector machine (SVM), specifications based technique, signature and clustering algorithm to decrease the consumption of resources, by reducing the amount of information forwarded.

**Implementation of an Hierarchical Hybrid Intrusion ...**

Learning Pairwise SVM on Hierarchical Deep Features for Ear Recognition ... local-descriptor-based and hybrid methods in the most challenging scenarios [26][27][28]66]. One of the earliest ...

**(PDF) Learning Pairwise SVM on Hierarchical Deep Features ...**

The proposed hybrid ICA-SVM scheme initially applies ICA to the Hotelling T<sup>2</sup> MSPC chart to generate independent components (ICs). The hidden information of the fault quality variables can be identified in these ICs. The ICs are then served as the input variables of the classifier SVM for performing the classification process.

**A Hybrid ICA-SVM Approach for Determining the Quality ...**

The designed system is used to determine the best SVM parameters, and it is compared to PSO and CS optimization methods and found that the used CS-PSO hybrid optimization method is better. The hybrid model shows that the accuracy of the performance achieved is 97.4359%.

**Optimization of SVM Parameters with Hybrid CS-PSO ...**

This paper proposes a collaborative semi-supervised classifier learning algorithm to achieve durative online learning for support vector machine (SVM) based robust target classification. The proposed algorithm incrementally carries out the semi-supervised classifier learning process in hierarchical WMSN, with the collaboration of multiple sensor nodes in a hybrid computing paradigm.

**Hierarchical Wireless Multimedia Sensor Networks for ...**

This paper proposes a collaborative semi-supervised classifier learning algorithm to achieve durative online learning for support vector machine (SVM) based robust target classification. The proposed algorithm incrementally carries out the semi-supervised classifier learning process in hierarchical WMSN, with the collaboration of multiple sensor nodes in a hybrid computing paradigm.

**Hierarchical Wireless Multimedia Sensor Networks for ...**

This method builds the hierarchy from the individual elements by progressively merging clusters. In our example, we have six elements {a} {b} {c} {d} {e} and {f}. The first step is to determine which elements to merge in a cluster.

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