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could be credited with

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to be successful. As understood, Array Processing And Electromagnetics completion does not suggest that you have wonderful points.

# Lectures On Computational Electromagnetics

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So far, machine learning has largely been devoted to solving problems relating to data mining, text categorization, and pattern/face recognition, but less so in the field of electromagnetics. Recently, popular binary machine learning algorithms, including support

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vector machines (SVM), have successfully been applied to wireless communication ...

## Lectures On **Support Vector Machines for Antenna Array Processing and ...**

Support Vector Machines (SVM) were introduced in the early 90's as a novel nonlinear solution for classification and regression tasks. These

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techniques have been proved to have superior performances in a large variety of real world applications due to their generalization abilities and robustness against noise and interferences.

## **Support Vector Machines for Antenna Array Processing and ...**

In this work, Support Vector Machine (SVM)

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formulation is worked out based upon "L" measured data for the resonant frequency, operation bandwidth, input impedance of a rectangular microstrip...

## **Support Vector Machines for Antenna Array Processing and ...**

Abstract In this paper, a support vector machine (SVM) technique has been



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applied to an antenna allocation system with multiple antennas in multiuser downlink communications. Here, only the channel magnitude information is available at the transmitter.

**Support vector  
machine-based  
transmit antenna  
allocation ...**

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Machines For  
Allocation for Multiuser  
Communication  
Systems 1.

Introduction. Recently,  
machine learning has  
been attracting much  
research interest from  
various fields due to...

3. SVM-Based Antenna  
Allocation. In order to  
reduce the  
computational  
complexity of the ...

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# Online Library Support Vector Machines For site.

## Antenna Array **Support Vector Machi nes Support Vector Machines for - CodeBus**

We introduce two support vector machine (SVM)-based approaches for solving antenna problems such as beamforming, sidelobe suppression, and maximization of the signal-to-noise ratio.

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Machines For  
**(PDF) Beamforming**

**Using Support  
Vector Machines**

support vector  
machine (SVM) have  
been applied, in the  
binary case, to receiver  
design and channel  
equalization. This  
paper presents a  
multiclass implemen-  
tation of SVMs for DOA  
estimation and  
adaptive beamforming,  
an important  
component of code  
division multiple

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access (CDMA)  
communication  
systems. 2 Introduction

## **Support Vector Machines for Direction of Arrival Estimation**

Abstract—We introduce two support vector machine (SVM)-based approaches for solving antenna problems such as beamforming, sidelobe suppression, and maximization of the signal-to-noise

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ratio. A basic  
introduction to SVM  
optimization is  
provided and a  
complex nonlinear SVM  
formulation developed  
to handle antenna  
array processing in  
space and time.

**642 IEEE  
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The support vector  
regression framework

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is proposed as the basis for a new antenna array characterization technique able to model radiating structures including all the coupling effects between the elements of the array from experimental data.

## **Multiple Support Vector Regression for Antenna Array ...**

Support Vector Machines (SVM) are a



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good candidate for the solution of antenna array processing problems such as beamforming, estimation of angle of arrival or Ultra-Wide Band (UWB) electromagnetic design, because these algorithms provide superior performance in generalization ability and computational complexity.

## **Antenna Array**

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**Processing for Radar  
Applications with ...**

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**Support Vector  
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Processing and ...**

The basic idea is to change the excitation coefficient for each array element (magnitude and phase) to optimize for changes due to the environment surrounding an array antenna. Using Support Vector Machines, the

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antenna array is trained to change its elements phase or excitation distribution to maintain a certain radiation pattern or to enhance its beam steering and nulling properties and solve the DOA problem as well.

## **Antenna Design with Machine Learning | Anil Pandey**

Abstract: In this paper, a support vector

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machine (SVM)  
technique has been  
applied to an antenna  
allocation system with  
multiple antennas in  
multiuser downlink  
communications.

**Support Vector  
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A Support Vector  
Machine models the  
situation by creating a  
feature space, which is  
a finite-dimensional

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vector space, each dimension of which represents a "feature" of a particular object. In the context of spam or document classification, each "feature" is the prevalence or importance of a particular word.

## **Support Vector Machines: A Guide for Beginners | QuantStart**

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Support vector machines for antenna array processing and electromagnetics.

[Manel Martínez-Ramón; Christos G Christodoulou] --

Support vector machines (SVM) were introduced in the early 90's as a novel nonlinear solution for classification and regression tasks. These techniques have been proved to have superior performances

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## Antenna Array **Support vector machines for antenna array processing and ...**

The proposed method relies on ESPAR antenna's radiation patterns measured during the initial calibration phase of the DoA estimation process. These patterns are then used in the support vector machine (SVM) training



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process adapted to handle ESPAR antenna-based DoA estimation.

## **RSS-Based DoA Estimation for ESPAR Antennas Using Support ...**

The support-vector clustering algorithm, created by Hava Siegelmann and Vladimir Vapnik, applies the statistics of support vectors, developed in the support vector

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machines algorithm, to categorize unlabeled data, and is one of the most widely used clustering algorithms in industrial applications.

## **Support vector machine - Wikipedia**

In this wiki, a Support Vector Machine (SVM)-based multi-class classifier is used to match any possible deformed radiation patterns with an exclusive spatial

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distribution of failed elements, which means that we can locate those faulty elements within the antenna array based on real-time measurements of the radiated field.

## **Element Failure Diagnostics for Planar Antenna Arrays ...**

Abstract—We introduce two support vector machine (SVM)-based approaches for solving

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Antenna Array Processing And Electromagnetics Lectures On Computational Electromagnetics

antenna problems such as beamforming, sidelobe suppression, and maximization of the signal-to-noise ratio. A basic introduction to SVM optimization is provided and a complex nonlinear SVM formulation developed to handle antenna array processing in space and time.

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