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# **Fast Centroid Algorithm For Determining The Surface**

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## **Fast Centroid Algorithm For Determining**

Based on the fast  
Gaussian fitting  
method, a novel star  
centroiding algorithm  
is proposed, which  
sequentially performs

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the FGF twice to calculate the star centroid: the first FGF step roughly calculates the Gaussian parameters of a star spot and the noise intensity of each pixel; subsequently the second FGF accurately calculates the star centroid utilizing the noise intensity provided in the first step.

## **Star Centroiding**

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**Based on Fast  
Gaussian Fitting for  
Star ...**

To simplify the algorithm for determining the surface plasmon resonance (SPR) angle for special applications and development trends, a fast method for determining an SPR angle, called the fixed-boundary centroid algorithm, has been proposed. Two experiments were

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conducted to compare three centroid algorithms from the aspects of the operation time,

### **Fast centroid algorithm for determining the surface ...**

This is a method of determining the centroid of an L-shaped object. Divide the shape into two rectangles, as shown in fig 2. Find the centroids

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of these two rectangles by drawing the diagonals. Draw a line joining the centroids. The centroid of the shape must lie on this line AB. Divide the shape into two other rectangles, as shown in fig 3.

### **Centroid - Wikipedia**

3. Cluster center fast determination algorithm (CCFD) 3.1. Main idea of the algorithm. The fast



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clustering algorithm of  
RLM is based on the  
distribution of density  
and distance of the  
data object, and  
determines the cluster  
center quickly by  
constructing the  
normal distribution  
function.

## **A novel cluster center fast determination clustering algorithm**

Feature points  
detected by the FAST

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algorithm do not have a main local direction, in order to make the descriptor with strong robust rotational invariance, we will use the Intensity Centroid to orient the main direction of the feature point. The intensity centroid assumes that a corner's intensity is offset from its center, and this vector may be used to impute an orientation.

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**A FAST-BRISK  
Feature Detector  
with Depth  
Information**

In this article, we have demonstrated an application of the weighted K-means clustering algorithm to determine warehouses' locations of a fast-food restaurant. To summarize, this modified version of K-means differs from the original one in the way it calculates the

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clusters' centroids,  
which uses the  
weighted average  
instead of the regular  
mean.

### **Using Weighted K- Means Clustering to Determine ...**

Solve for the centroid  $C$   
 $y$  of the whole figure by  
dividing the summation  
 $\Sigma Ay$  by the total area of  
the figure  $\Sigma A$ . The  
resulting answer is the  
distance of the entire  
figure's centroid from

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the x-axis.

**Calculating the  
Centroid of  
Compound Shapes  
Using the ...**

With the integration of the proposed method with EKM algorithm - that is a well-known algorithm for calculating the centroid of interval type-2 fuzzy sets - a fast and precise method for calculating the centroid of polygonal interval

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type-2 fuzzy sets and polygonal type-2 fuzzy sets on discrete and continuous domain are presented.

## **Centroid of polygonal fuzzy sets - ScienceDirect**

perform centroid  
initialization search  
iterations to determine  
our “best” collection of  
initial centroids use  
results to perform  
clustering on full  
dataset A future post

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will perform and report comparisons of results between various approaches to centroid initialization, for a more comprehensive understanding of the practicalities of ...

### **Iterative Initial Centroid Search via Sampling for k- Means ...**

A Fast Algorithm for K-Means Optimization using Pillar Algorithm ... results because of

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its designated initial  
centroids as cluster  
centers which are  
generated randomly. ...  
process of determining  
...

### **(PDF) A Fast Algorithm for K- Means Optimization using ...**

The following listing,  
for example, is a  
FORTRAN  
implementation of a  
centroid algorithm  
which produces robust



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Algorithm For  
estimates without  
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of the the nearby  
"sky" background: C C  
A Simple Centroid  
Algorithm C C A  
modification of the  
Modified Moment  
Method (Stone  
1989,AJ,97,1227) C  
that works well with  
small apertures.

### **Algorithms for CCD Stellar Photometry - ADASS**

K-means is a centroid-

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based algorithm, or a distance-based algorithm, where we calculate the distances to assign a point to a cluster. In K-Means, each cluster is associated with a centroid. The main objective of the K-Means algorithm is to minimize the sum of distances between the points and their respective cluster centroid.

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## **K Means Clustering | K Means Clustering Algorithm in Python**

The standard algorithm is the Hartigan-Wong algorithm (Hartigan and Wong 1979), which defines the total within-cluster variation as the sum of squared distances Euclidean distances between items and the corresponding

centroid:  $W(C_k) = \sum_{i \in C_k} (x_i - \mu_k)^2$

design a data point

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belonging to the  
cluster  $C_k$

## **K-Means Clustering in R: Algorithm and Practical Examples**

...

After Step #2 in  
creating a k-means  
clustering algorithm,  
centroids are  
computed based on  
the mean between  
data points in a cluster.  
The formula used to  
compute this distance  
is called Euclidean ...

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**K-Means Clustering  
Algorithm for  
Machine Learning |  
by ...**

This algorithm is fast and accurate, and can quickly find locations of high data densities (i.e., clusters) and rank them accordingly. It can also be used in a real-time, and incremental mode, so...

**US20060047655A1 -  
Fast unsupervised**

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## ... Determining The Surface

B. Fast clustering algorithm. While this algorithm is described in the context of keyword clustering, it is straightforward to adapt it to other contexts. Here we assume that we have  $n = 10,000,000$  unique keywords and  $m = 100,000,000$  keyword pairs  $\{A, B\}$ , where  $d(A,B) > 0$ . That is, an average of  $r=10$

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related keywords  
attached to each  
keyword.

## **Fast clustering algorithms for massive datasets - BigDataNews**

the centroid of a group  
of data sets. To  
determine cluster  
membership, most  
algorithms evaluate  
the distance between a  
point and the cluster  
centroids. The output  
from a clustering

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algorithm is basically a statistical description of the cluster centroids with the number of components in each cluster.

### **New Fast K-Means Clustering Algorithm using Modified ...**

Once orb has created a pyramid it uses the fast algorithm to detect keypoints in the image. By detecting keypoints at each level orb is effectively locating key



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points at a different  
scale. In this...

## **Introduction to ORB (Oriented FAST and Rotated BRIEF) | by**

...

The aim of a  
continuous location  
problem [18] is to  
determine the location  
of one or more new  
facilities in a  
continuum of possible  
locations. ...  
recalculating the  
centers or centroids of

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Algorithm For  
Determining The  
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the clusters and  
reallocating of the data  
vectors to the closest  
center or centroid:

Algorithm 1. ALA  
method [28], ...

Algorithm 9. Fast  
greedy heuristic ...

Copyright code: d41d8  
cd98f00b204e9800998  
ecf8427e.