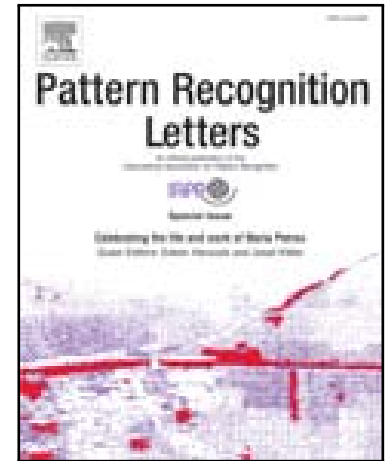


Accepted Manuscript



k-Means Clustering with Outlier Removal

Guojun Gan, Michael Kwok-Po Ng

PII: S0167-8655(17)30074-0
DOI: [10.1016/j.patrec.2017.03.008](https://doi.org/10.1016/j.patrec.2017.03.008)
Reference: PATREC 6763

To appear in: *Pattern Recognition Letters*

Received date: 5 July 2016
Revised date: 5 November 2016
Accepted date: 7 March 2017

Please cite this article as: Guojun Gan, Michael Kwok-Po Ng, k-Means Clustering with Outlier Removal, *Pattern Recognition Letters* (2017), doi: [10.1016/j.patrec.2017.03.008](https://doi.org/10.1016/j.patrec.2017.03.008)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Research Highlights (Required)

To create your highlights, please type the highlights against each `\item` command.

It should be short collection of bullet points that convey the core findings of the article. It should include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point.)

- We study the problem of data clustering with outlier detection.
- We propose a k -means-type algorithm by incorporating an additional “cluster” into the objective function.
- The algorithm is able to provide data clustering and outlier detection simultaneously.
- Outliers are not used in the cluster center calculation.
- Experiments on synthetic and real data show that the algorithm performs well.

Download English Version:

<https://daneshyari.com/en/article/4969980>

Download Persian Version:

<https://daneshyari.com/article/4969980>

[Daneshyari.com](https://daneshyari.com)