



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	Ms_BJAST_26707
Title of the Manuscript:	A Study on the Application of Data Mining and GIS to seniors living alone in Taiwan Population Census
Type of the Article	Review paper

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	In this paper, authors present a research performed on seniors living alone in Taiwan. They plot census data about elderly people on a map and see the distribution. They also perform some association rules to derive some information about their distribution. The paper is of limited interest. The problem is uninteresting The paper is not technically sound. To meet these critics authors need to elaborate on association rules and present the analyzed data set in more detail. Many details are missing in the related work and architecture section. Authors perform their analyses on data about seniors living alone. I am curious how they found large enough data to get reliable results by using association rules. Figure-2 is missing in the paper. References are very old and mostly from 2007 and 2008. Authors should give more recent reference list. Moreover, references should include more closely related works. Conclusion and evaluation section is missing.	The paper is interest by Taiwan government census department. The research data is come from Taiwan government which provided by census department and updates every 10 years. The data scale is 2,000,000 about senior age people in Taiwan. The related work and architecture are already done in page 3-5. In Page 2, we describe data set in detail, "This study aims to apply data mining techniques to investigate the demographic features of socially disadvantaged groups in Taiwan by using population and household data collected in the 2000 census to provide reference for social welfare decision makers in understanding these groups and forming policy."



SDI Review Form 1.6

		Figure 2 is corrected in page 4. References are new added and from 2010 and 2015. References already include more closely related works in page 9,10,11. In page 3, we correct the architecture section problem. "The research process as shown below was developed based on seven steps proposed for knowledge discovery in databases (KDD) by Han and Micheline (2001). The research steps employed in this study were as follows:" In page 0 , 1 we increase new cited paper (Chang, Shyue 2010) in text . In page 3, we elaborate on association rules " The first type is association rule mining proposed by Agrawal and Srikant (1994) for finding interesting associations and correlations among sales items in huge volumes of sales data. Association rules are created by analyzing data for frequent if/then patterns and using the criteria support and confidence to identify the most important relationships. Support is an indication of how frequently the items appear in the database. Confidence indicates the number of times the if/then statements have been found to be true." The research steps employed in this study were as follows in Page 3. References corrected in Page 10. 11 The research data come from Taiwan 2000
--	--	---



SDI Review Form 1.6

		census data. The data scale is huge (2,000,000). Figure-2 has been corrected in Page 4. References are given more recent years and more closely related works in 2010, 2012, 2015 at reference list 6, 10, 23. Conclusion section has completed in Page.9
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		