



## 外部環境品質觀點下都市更新制度之檢討： FANP 與GIS 方法之整合與運用

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### 摘要

產業聚集是產業群聚的前提，聚集的企業通過技術與知識之分享，能夠實現規模經濟，從而提升其生產效率。隨著產業技術與知識不斷提升，生產者服務業的重要性與日俱增，其屬於知識密集型產業，能夠為企業提供生產上之各項服務。隨著生產者服務業的聚集程度提高，其生產效率可能因知識分享而提升，受其服務的製造業也可能因獲得更多專業化服務而提升其生產效率。基於此，本研究於探討生產者服務企業的聚集對其自身生產效率的影響，以及生產者服務企業的集聚程度以及生產效率對其周邊製造企業生產效率的影響。北京市豐台區包含廣大的城鄉結合部區域，區內既有早期建立的中關村科技園區，又有眾多自發形成的中小企業。各級產業不斷發展的過程中，生產者服務企業與製造企業的互動關係，為本文提供了典型的研究案例。本文利用 2008 年中國大陸第二次全國經濟普查資料，首先採用距離衡量生產者服務企業的聚集程度，並運用資料包絡分析法分別計算生產者服務企業和製造業的生產效率；其次，透過相關分析，分別探討生產者服務企業、製造企業的聚集程度與其生產效率的關係；最後，運用回歸分析，實證生產者服務企業的聚集程度、生產效率以及製造企業的聚集程度，對製造企業生產效率的影響。

關鍵字詞：聚集、生產效率、生產者服務業、製造業、資料包絡分析法

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## **Institution reviews of urban renew through outer environmental quality viewpoint: an application of FANP and GIS**

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### **Abstract**

For have been already developed of city with Be finished region and speech, developed in early days for the improvement the corrupt of region with the environment quality that promotes to live, urban renewal promotion is necessarily in the overall development through of process. At present,urban renewal mainly the improvement at building essence, by the capacity reward of increase building floor area to give something back to and set up business and residents with exaltation urban renewal participation of the head type for inducement . Neglected the original intention that the whole environment quality promotes, and everyplace the space of the area difference.

Therefore, this research through literature review to consolidate environmental factors affecting the quality of urban life, a and analysis by Fuzzy Analytical Network Process, FANP and expert's questionnaire and confirm connection between each influence and factor and power to weigh through the misty network layer class, to construct the factor system of living environment quality in Taipei City.

Adopt geography information system(Geographical Information System, GIS) tool in addition, aim at each influence of living environment quality factor to carry on the establishment of space diagram property with understand each factor distributes at hollow of difference.Follow-up, and with fold diagram analysis(overlap) method combine the factor's system to carry on the space valuation of living environment quality in Taipei City.

End, this research lieutenant general with the result self-criticism of the environment quality space valuation current urban renewal system in Taipei City, with under the surrounding living environment quality and the space difference standpoint, put forth the suggestion that the urban renewal system adjusts.

Keywords: urban renew, environmental quality, FANP, GIS, overlap