

Min GUO



Areas of Research

Urban Planning, Urban Green Space Structure, Ecological Effects of Urban Green Space

Contact Information

Office location: Room 211 Laboratory Building 3(Mailing Address:1st Weigang, Nanjing City, Jiangsu Province, Nanjing Agricultural University, College of Horticulture)

Office phone: 025-84395101

Email address: mguo@njau.edu.cn

Research Interests

Urban Planning, Urban Green Space Structure, Ecological Effects of Urban Green Space

Some of the problems we are currently working on are described below:

1. Ecological Effects of Urban Green Space

Urban Green space is an important part of the urban ecosystem and its ecological effects has played an important role on the quality of urban environment. Urban green structural features influence their ecological effects a lot. We use GIS quantitative models to research the relationships between ecological effects and urban green space structure.

2. Impact of urban green space landscape pattern on the spatial and temporal distribution of PM_{2.5} / 10

This study aims to analyze the impact of urban green space landscape pattern on the spatial and temporal distribution of PM_{2.5} / 10 from the perspective of landscape, and on this basis, explore the optimization measures of urban green space landscape pattern based on mitigation of atmospheric particulate matter. The thesis analyzes the spatiotemporal dynamics of PM_{2.5} / 10 in Nanjing from March 2018 to February 2020, and uses linear regression to analyze the green patch area ratio, green patch

maximum patch index, area weighted average plate shape index, landscape The impact of the four landscape pattern indicators of the segmentation index on the concentration of particulate matter.

Education Background

Bachelor: Nanjing Forestry University

Master: Gifu University (Japan)

Doctor: Gifu University (Japan)

Work experience

lecturer, Nanjing Agricultural University, 2014-

Selected Publication

Min Guo and Fumitaka Kurauchi: Changes in Land Use, Transport System and Traffic Mobility in Gifu City during the 1980s and 1990s, *Procedia - Social and Behavioral Sciences*, Proceedings of The 9th International Conference on Traffic & Transportation Studies, Social and Behavioral Sciences, Elsevier, Volume 138, 14 July 2014, Pages 537–547.

郭敏,倉内文孝: 統合型交通量配分モデルを用いた岐阜市における交通 施策および土地利用施策評価, 第 34 回交通工学研究発表会论文集 (CD-ROM), 2014, PaperNo.108.

郭敏,倉内文孝: 交通施策および土地利用施策評価のための統合型交通量配分モデル構築に関する研究, *交通科学*, 2014, Vol.45 No.1,pp.65-76.

Min Guo and Fumitaka Kurauchi: Changes in Land Use, Socioeconomic Indices, and the Transportation System in Gifu City and their Relevance during the Late 20th Century, *Open Journal of Civil Engineering*, Vol.2 No.3, September 2012, pp.183-192.

Min Guo and Fumitaka Kurauchi: Study on the Interaction of Urban Planning Factors and Traffic Mobility in Gifu City by Using Historical Map, Statistics and Person Trip Survey Data, *Applied Mechanics and Materials*, Volumes 253 – 255, 2012, pp1950-1955.

Min Guo and Fumitaka Kurauchi: Changes in Land Use, Transportation System and the Mobility in Gifu by using Historical Map, Statistics and Personal Trip Survey Data, 土木計画学研究・講演集 (CD-ROM), 2012, Vol.46, Paper No.46.

Kurauchi, F., Guo, M. and Sumalee, A.: Door-to-door DRT Assignment NSFC 2015 第 20 页 国家自然科学基金申请书 2015 版 版本: 15110000001650245 Model Considering Travellers Mode Choice, Proceedings of the 11th International Conference on Advanced Systems for Public Transport, CD-ROM, 2009.

郭敏, 倉内文孝, 高木朗義, 進藤隆弘: 車両運行計画モデルによる実ネットワークを用いた Semi-Dynamic 型 DRT の導入効果の検討, 第 8 回 ITS シンポジウム 2009, Peer-Review Proceedings, 121-126.

Min Guo, Masashi Okushima and Takamasa Akiyama: The Geographical Travel Behaviour Analysis with Regional Trip Survey Data for Disaster Damage Estimation, infrastructure Planning Review, 2008, Vol.25, No.3, pp.647--654.

Reference