

OPEN JOURNAL
SYSTEMS

JOURNAL HELP

USER

Username

Password

Remember me

JOURNAL CONTENT

Search

All

Search

Browse

- By Issue
- By Author
- By Title

FONT SIZE

INFORMATION

- For Readers
- For Authors
- For Librarians

ARTICLE TOOLS



Print
this
article



Indexing
metadata



How
to cite
item



Email
this
article
(Login
required)



Email
the
author
(Login
required)

RELATED ITEMS



Author's work

Related studies

Book reviews

Pay-per-view

Surveys

Soc sci data

Social theories

Book searches

Databases

Relevant portals

Online forums

Legal materials

Government policy

Media reports

Web search



Show all

NOTIFICATIONS

- [View](#)
- [Subscribe](#)

[Home](#) > [Vol 6, No 3 \(2013\)](#) > [Farooq](#)

A multidimensional decisions modeling framework for built space supply

Bilal Farooq, Eric J. Miller, Murtaza Haider

Abstract

The spatial and temporal distribution of built space supply plays an important role in shaping urban form and thus the general travel pattern in an urban area. Within an integrated framework, we are interested in modeling the decisions of a builder in terms of when, where, what type, and how much built space to build. We present a multidimensional discrete-continuous model formulation for the built space supply decisions

that are based on expected profit maximization. The framework is applied to estimate a model for supply of new office space in the greater Toronto area (GTA) for the 1986 to 2006 period. To our knowledge, this work is the first that models the where, when, how much, and what type of office space to build in a single econometric framework at a fairly disaggregate spatial zoning system. The results indicate risk taker behavior on the builders' part, while market conditions and supply of resources (labor, construction cost, etc.) are also found to be important factors in decision making.

Keywords

Built space supply, integrated urban systems, choice modelling

Full Text:

PDF

DOI: <http://dx.doi.org/10.5198/jtlu.v6i3.350>

The Journal is housed at the University of Minnesota and sponsored by the Center for Transportation Studies

Contact JTLU | ISSN: 1938-7849

All contents licensed under [Creative Commons by-nc 3.0](#). © 2007-2014 Journal of Transport and Land Use

The Journal of Transport and Land Use is indexed in [DOAJ](#), [Google Scholar](#), and [Scopus](#).