

Document details

< Back to results | 1 of 1

Export Download Print E-mail Save to PDF Add to List More... >

[Full Text](#) View at Publisher

World Congress on Civil, Structural, and Environmental Engineering 2017, 9p

Proceedings of the 2nd World Congress on Civil, Structural, and Environmental Engineering, CSEE 2017; Barcelona; Spain; 2 April 2017 through 4 April 2017; Code 139598

Residents ' perceptions on the effectiveness of road humps in improving Malaysian residential environments (Conference Paper)

Bachok, K.S.R.B. ✉, Hamsa, A.A.K. ✉, Mohamed, M.Z., Ibrahim, M.

International Islamic University Malaysia, Jalan Gombak, Kuala Lumpur, 50728, Malaysia

Abstract

[View references \(6\)](#)

Two common concerns for residents in their respective residential areas are high traffic speeds and noise levels. This paper analyses if road humps are viable as a measure for improving residential living environment based on their effects on traffic speed and noise. The study was conducted in three Malaysian residential areas: Putrajaya, Taman Setiawangsa, and Keramat. A questionnaire survey was distributed to 478 respondents asking for their perception on whether road humps have improved the living environment by reducing speed and noise. Binary logistic regression models were also estimated using the questionnaire data regarding whether the existing road humps have improved the living environment by reducing traffic noise. Descriptive analysis was conducted to assess changes in average vehicle speeds and noise levels for the selected 12 road humps. The significance of this paper is that it explains the effect of existing Malaysian road humps on actual residential environments, which can potentially help improve the planning of new residential areas. The result of this study is that road humps are effective in reducing vehicle speeds but are not viable as a noise reduction measure. © Avestia Publishing, 2017.

Author keywords

Malaysia Residential Road hump Traffic noise Vehicle speed

ISSN: 23715294

ISBN: 978-192787729-6

Source Type: Conference Proceeding

Original language: English

DOI: 10.11159/icte17.124

Document Type: Conference Paper

Sponsors:

Publisher: Avestia Publishing

References (6)

[View in search results format >](#)

All Export Print E-mail Save to PDF Create bibliography

- 1 Abbott, P., Taylor, M., Layfield, R. The effects of traffic calming measures on vehicle and traffic noise (1997) *Traffic Engineering & Control*. Cited 5 times.

Metrics

0 Citations in Scopus
0 Field-Weighted Citation Impact



PlumX Metrics

Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert >](#)

[Set citation feed >](#)

Related documents

A theoretical overview of road hump effects on traffic noise in improving residential well-being

Radhiah Bachok, K.S. , Kadar Hamsa, A.A. , Bin Mohamed, M.Z. (2017) *Transportation Research Procedia*

Factors influencing students' attitude toward having opposite sex friends

Jumnongkum, I. , Chatraphorn, S. (2011) *Kasetsart Journal - Social Sciences*

Raised crosswalks efficacy on the lowering of vehicle speeds

Pratelli, A. , Pratali, R. , Rossi, M. (2011) *WIT Transactions on the Built Environment*

[View all related documents based on references](#)

[Find more related documents in Scopus based on:](#)

□ 2 Bendsen, H., Larsen, L.E.
 Noise and nuisance from road humps
 (2000) *29th International Congress and Exhibition on Noise Control Engineering*. Cited 2 times.
 France

□ 3 Hidas, P., Weerasekera, K., Dunne, M.
 Negative effects of mid-block speed control devices and their importance in the overall impact of traffic calming on the environment
 (1998) *Transportation Research Part D: Transport and Environment*, 3 (1), pp. 41-50. Cited 6 times.
www.elsevier.com/inca/publications/store/3/1/1/5/3/
 doi: 10.1016/S1361-9209(97)00011-4
[View at Publisher](#)

□ 4 Wewalwala, S.N., Sonnadara, D.U.J.
 Traffic noise enhancement due to speed bumps
 (2011) *Sri Lankan Journal of Physics*, 12, pp. 1-6. Cited 6 times.

□ 5 Lee, G., Joo, S., Oh, C., Choi, K.
 An evaluation framework for traffic calming measures in residential areas
 (2013) *Transportation Research Part D: Transport and Environment*, 25, pp. 68-76. Cited 12 times.
www.elsevier.com/inca/publications/store/3/1/1/5/3/
 doi: 10.1016/j.trd.2013.08.002
[View at Publisher](#)

□ 6 Krejcie, R.V., Morgan, D.W.
 Determining sample size for research activities
 (1970) *Educational and Psychological Measurement*, 30, pp. 607-610. Cited 1879 times.

© Copyright 2018 Elsevier B.V., All rights reserved.

< Back to results | 1 of 1

^ Top of page

About Scopus

What is Scopus
 Content coverage
 Scopus blog
 Scopus API
 Privacy matters

Language

日本語に切り替える
 切换到简体中文
 切换到繁體中文
 Русский язык

Customer Service

Help
 Contact us