

CONFERENCE ON URBAN PLANNING & MANAGEMENT IN MALAYSIA

In Conjunction with 40th Anniversary of MIP
and World Town Planning Day 2012

*Renaissance Hotel, Kuala Lumpur
8th November 2012 (Thursday)*

Jointly Organised by:



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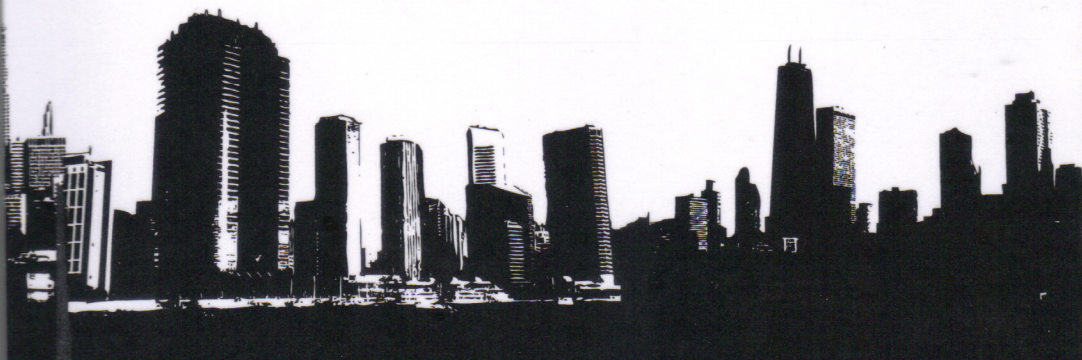
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Program Book and Abstract



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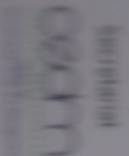
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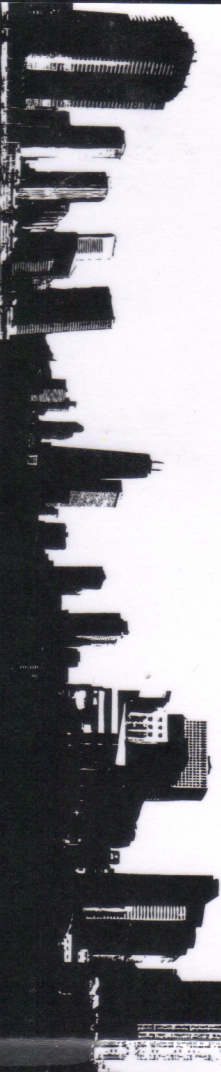
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Planning and Compensation at Local Planning in Peninsular Malaysia
 Concept and Implementation of Buffer Zone for Protected Areas in Land Use Planning

Theme 6: Urban Design and Heritage

A Car Free City Concept Based On Sustainable Urban Design Indicators

The Incorporation of Spiritual and Sacred Sites in Enhancing the Management of Protected Areas

The Links between Crime and Planned Housing Areas: The Malaysia Case

A Study on Community Involvement in Safeguarding Intangible Cultural Heritage of Baba Nonya Culture in Jalan Tun Tan Cheng Lock and Jalan Hang Jebat, Melaka

Malaysian Urban Parks and Open Spaces: Lacking of vision or lacking of spaces?

Urban Livability: Investing in People, Place and Ecology

Variations of Grid Residential Layout Examined: Safety at Street Scale

Theme 7: Planning Technology and ICT

Detection of Land Cover Changes Using Remote Sensing and Geographical Information System

Measuring Urban Sprawls On Highway Strip Parameters Using GIS Approach

The Study on Consumers' Acceptance And Participation In The Electronic Land Administration Management System

GIS Application in Identifying Barriers to Youth Accessibility to Recreation Parks

An Integrated Geographical Information System (GIS) and Location-Allocation Model in Public School Siting

A Literature Review on the Factors Influencing Employees' Preference towards Telecommuting

Beach Resort Evolution In Batu Feringgi, Penang

Social Networking Sites as a Medium to Disseminate Planning Information

Theme 8: Social Aspect in Planning

Application of Community via Planning Support System to Study

Urban Redevelopment in Kampong Bharu, Kuala Lumpur

Embracing Cultural Identity through Cultural Activities

Car free environment and quality of interaction between people

Bridging the Importance-Satisfaction Gap in Urban-Rural Quality of Lives: Implications for Planning

Smart Communities and Neo-Urbanism in India: Tracing the Development

Quality of Life of the Low Income Housing: A Review of Literature

Coastal Transformation towards a Nature Base Tourism: The Impacts on Tioman Island Malaysia

The Impact of Tourism Development to the Local Population: The Case of Kg Padang Lalang, Langkawi

Environmental Ergonomic for the Optimization of Hot and Humid Outdoor Condition

Conference Committee

NOTES

Application of Community via Planning Support System to Study	94
Urban Redevelopment in Kampong Bharu, Kuala Lumpur	95
Embracing Cultural Identity through Cultural Activities	96
Car free environment and quality of interaction between people	96
Bridging the Importance-Satisfaction Gap in Urban-Rural Quality of Lives: Implications for Planning	97
Smart Communities and Neo-Urbanism in India: Tracing the Development	98
Quality of Life of the Low Income Housing: A Review of Literature	99
Coastal Transformation towards a Nature Base Tourism: The Impacts on Tioman Island Malaysia	100
The Impact of Tourism Development to the Local Population: The Case of Kg Padang Lalang, Langkawi	101
Environmental Ergonomic for the Optimization of Hot and Humid Outdoor Condition	102
Conference Committee	103
NOTES	105

Measuring Urban Sprawls On Highway Strip Parameters GIS Approach

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Abstract

Urban sprawl is one of the contemporary issues of cities all over the world nowadays, contributes to the inefficient use of land resources, energy and large scale absorption of open space that can otherwise be used more effectively for a land use development activities. It is refers to a specific form of urban development characterized by low-density, leapfrog, highway strip development and discontinuity. Highway strip is one of the spatial factors for urban sprawl, which usually characterized by fast food restaurants and retail strip malls and including single family housing units lining rural highway. This research attempt to study a remote sensing and GIS approach to measure spatial factor on highway strip for urban sprawls to assess the characteristic of expansion of land use sprawl particularly for residential, commercial, industrial areas and identify either the development exactly was sprawl or common development. The analysis shows a highway strip indicator was calculated by measuring the distance from the highways buffer to the residential unit. Finally, further understanding of dynamic phenomenon urban sprawl which is, highway strip pattern and measurement of sprawl indicator was determined.

Keywords: GIS, Spatial Factor, Urban Sprawls Measurement, Highway Strip, Urban Planning