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Effect of Weather for Demand of Online Transportation in Tembalang, Semarang

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Abstract

Estimates of online transportation users in an area need to be known because it can be used to analyze how much the dependence of the traveler on online transportation . So that it can be seen how the travel patterns of online transportation users. However, research on the impact of weather variables on the selection of modes of online transportation has not been widely implemented. This study aims to evaluate the influence of the weather by entering dry season and rainy season variabel related to daily travel behaviour on online transportation . This research was conducted at Tembalang Semarang , and the target of respondents was students. The analytical results show that, in general the existence of rainfall is associated with a certain degree of online transpotation user of go car/grab car increase. So we can conclude that weather-related variables were found to routine/daily trips. © Published under licence by IOP Publishing Ltd.

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daily trip; demand of online transportation; education area; weather

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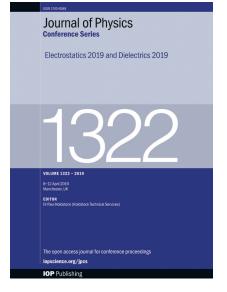
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Sustainable Communities as a Response to Climate Change: Analysis of Geroldsäcker Eco-Housing Project and Recommendations for its Replication Considering Current Urban Challenges

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Abstract. Geroldsäcker eco-housing is a unique project located in the northeast of Karlsruhe, in a 1.24-hectare plot with constructed area of 5.600m². The planning of the project started in year 1989 and its completion happened in 1992. It is composed of 40 residence units: apartments and 3 store row-houses with private garden. The initial concept was an ecological settlement with common infrastructure and spaces for human interaction, using constructive ecological materials and devices for the residences and common areas. The community living sense is one of this project's highlights. The 120 residents not only share common spaces, such as a community house destined to events and practice of activities, but also developed task groups to cover all necessary workspaces in the settlement. What can be observed nowadays is that Geroldsäcker, even being implemented 3 decades ago, presents several important sustainability aspects in the ecological, social and economic dimensions. What started as a pilot project at a time when the definition of sustainability was still under discussion, can be considered a model not only of sustainable housing, but also as a broader model for sustainable communities. This paper explores the aspects identified in Geroldsäcker eco-housing project leading towards a sustainable community concept. Potentialities and improvement points are analysed, considering current urban challenges, such as high demand and costs for land, lack of public land for experimental projects, efforts to stimulate bottom up processes, the behaviour of current generations, the need for new and environmental friendly constructive patterns, and how to aggregate stakeholders to boost new models of sustainable communities projects.

Keywords: Sustainable communities, Geroldsäcker housing project, sustainable housing.

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Traffic Management for Jalan Kayu Ayu in Seminyak Area, Badung Regency

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Abstract: The usage of land for commercial purpose along the side of the road often causes conflicts. One of the areas in Badung Regency, namely along the road called Jalan Kayu Aya, is an attractive tourism area, the passageway is quite large, while on the other hand the effective width of the road is only 5 meters. The purpose of this study is to analyze the performance and the current condition of the road as well as to analyze alternative solutions for improvement. Based on the results of the analysis, the peak hours at Jalan Kayu Aya Badung Regency is at 23.15-00.15 WITA, with a traffic volume of 1,078 pcu / hour, road capacity of 1236.51 pcu / hour, actual speed of 19, 26 km / h and a saturation level is 0.87 and an F for the level of road service. The analysis results of alternative 1 with the arrangement of side barriers shows that the traffic volume becomes 1,078 pcu / hour. The road's capacity is 1404.43 pcu / hour, the actual speed is 27.23 km / h and the saturation level is 0.77 with a C for the level of road service. While the analysis of alternative 2 with the application of one-way roads results in a traffic volume of 550.2 pcu / hour, the capacity of the road's passage is 1407.06 pcu / hour, the actual speed is 27.23 km / h and saturation level is 0.77 with a road service level of B.

Keywords: road performance, side obstacle

1. Introduction

Badung Regency is among the Regencies in Bali Province which is active in the trade, agriculture and tourism sectors. The tourism sector is the main economic activity in the Southern Badung region, mainly in Kuta District. One of the locations with a high density of visits from local and foreign tourists is Jalan Kayu Aya. There are many facilities that support the tourism activities in this area such as hotels, restaurants, cafés and art shops, which have a positive impact on the increase in the number of tourist who visits.

The increase in economic activity in the areas of Jalan Kayu Aya has lead to an increase in the road traffic volume. The utilization of land for commercial purposes along the sides of the road creates various problems[1]. The land along the sides of the road is generally used by pedestrians (both walking on and crossing), non-motorized vehicles, access for vehicles from the road side, and there are also vehicles that stop and park on the street. The various activities has caused side friction conflicts [2,3].

The main problem in Jalan Kayu Aya Badung Regency is the tall barriers on the road side. While the width of the road is narrow, it only has an effective width of 5m. So that traffic delays often occur due to the high side barriers on these roads.

Based on the background of the traffic problems in Jalan Kayu Aya, this study will examine the extent of the influence of side barriers on the road performance along with alternative solutions. This research is the first study to analyze side barriers in the areas of Jalan Kayu Aya.

2. Materials And Method

2.1. Side Obstacles

Many transportation problems are linked to the problems of delays that occur during the trip. [4,5]These problems are caused by vehicles entering and exiting the road, vehicles that park on the roadside, pedestrians using the road bodies, and non-motorized vehicles [6]. These are what are called side obstacles. Side obstacles in certain circumstances may result in a temporary travel delay and also cause traffic jams (Table 1, 2).



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Angle Characterization Radiation Detection of Microstrip Antenna for Short Range Terahertz Communication System

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Abstract. Communication technologies are crucial components to develop smart city systems related to low latency and massive data transfer. The near field communication (NFC) technology has been becoming more popular for close-range data transmissions, such as multimedia data transfer and non-contact payment, and still increasing in term of capacity and data transfer. Increasing carrier frequencies is a solution to fulfill those demands. In wireless communication technology, an antenna is a crucial element to convert electrical signals into electromagnetic waves or vice versa. Theoretically, an antenna dimension is comparable to the considered wavelength. This condition indicates that higher working frequency systems have a smaller antenna size due to its wavelength shorten. Terahertz (THz) spectrum band is promising to apply higher carrier frequencies. However, the antenna design and fabrication are becoming issues because of the tiny size, electronic components availability, and practical complexities. We have designed a microstrip antenna for working frequency of 0.35 THz by combining ground modification to cover distance and data rates up to 10 cm and more than 20 Gbps, respectively. By considering the previous design, this paper discusses different distances and rotation angles to analyze the effectiveness of wave transmission by simulation using CST Microwave Studio. Analysis use received power parameters to identify accepted signals detection possibility. The results show that the received power exceeded the sensitivity boundary from -50° to 40° . which show that the angles also limit the allowable accepted power level. Therefore, THz NFC systems should consider the antenna placement for an optimum condition application.

Keywords: wireless, Terahertz, Near Field Communication (NFC), communication, antenna

1. Introduction

Communication technologies are crucial components to develop smart city infrastructure systems, especially related to the demand for low latency and massive data transfer. These requirements have been coming from new emerging human communication behaviors, such as video-on-demand services, video conferences, and cloud computing. Those technologies need wide bandwidth and high-speed data transfer to obtain high quality of service (QoS) for various both fix and mobile multimedia applications. They have been becoming more popular and have shifted previous telecommunication technologies usage and the way people communicate. The current technologies have been in a stage which should

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Modelling the Needs of Light Rail Transit (LRT) on Transit **Oriented Development Area around LRT Stations in Palembang**

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Abstract. Various efforts have been made to overcome the problem of congestion in Palembang, one of them is to provide Light Rail Transit (LRT) which has been operating since July 2018. Analysis of the relationship between the needs of LRT, travel characteristics and characteristic of LRT operation is needed to evaluate the LRT level of service. Level of service of LRT can be assessed from route service, integration of LRT modes with other public transportation, travel time and cost of travel demand. Based on this, the research aims to model the need for LRT in Palembang City on the Transit Oriented Development (TOD. TOD is an area that has the potential to be developed into an integrated area between land use and transportation systems including LRT transportation mode in the area. Travel and mode choice characteristics data of respondents are collected on households in the TOD area. Structural Equation Modelling (SEM) method is used to modelling the needs of LRT. The model can be used to determine the relationship between variables the need of LRT, travel behaviour characteristic and LRT operation characteristics. The result of the study shows that there is a positive and significant relationship between the variables on TOD area around LRT stations in Palembang.

Keywords: transit oriented development, structural equation modelling (SEM), modelling the needs of LRT,

1. Introduction

Currently transportation becomes derived demand for everyone in facilitating their daily activities. In line with the pace of development and growing population growth triggered the emergence of mobility as well. One effort to solve the need of transportation problem in Palembang City is providing mass transit of Light Rail Transit (LRT) which has been operating since mid-2018. However, in order to provide mass transportation in urban areas in accordance with the requirements of community movement, it is necessary to evaluate the characteristics operational of LRT. The purpose of the evaluation is to find out wheather the operational characteristics of LRT such as appropriate route, operational time, accessibility from and to the station accordingly with the travel characteristic and mode choice perception of community in Palembang City. Travel characteristics that need to be identified are the location of the origin-destination travel, the activities carried out before and after travel, travel time, the modes that are generally used and the possibility to change modes. Such information is important to know that the LRT in accordance with the daily needs of urban communities.

The purpose of this research is to evaluate the operation of LRT by modelling the need of Light Rail Transit for urban community in Palembang City. The model is used to find out the relationship between public perception about the need of LRT, travel characteristic, mode choice and operational characteristic of LRT. The method used in this study is descriptive analysis method to determine the travel characteristics and Structural Equation Modelling with second order testing of confirmatory factor

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Effect of Weather for Demand of Online Transportation in Tembalang, Semarang

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