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Author1, Author 2, Author 3 and Author 4

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ABSTRACT

Abstract of the study, within 150 words. 11 point Time New Roman Page limit: 4 pages

INTRODUCTION

The introduction part of the study 11 point Time New Roman Page limit: 4 pages

Hong Kong Wind Engineering Society (HKWES) aims to promote the education, science and practice of wind engineering in Hong Kong. HKWES workshops are held once every two years and the 4th workshop will be held on January 6-8, 2020, in the campus of The Hong Kong University of Science and Technology. 11 point Time New Roman

The purpose of the workshop is to provide a forum for interaction among Engineers, Scientists, Architects, Town Planners and Practitioners in aspects of Wind Engineering and related fields. 11 point Time New Roman

In addition to technical paper presentations on wind engineering research and practice, HKWES4 will feature a event on celebrating Prof. Kenny C.S. Kwok’s 70th Birthday and acknowledging his substantial contributions to Hong Kong Wind Engineering Society. 11 point Time New Roman

METHOD (e. g. EXPERIMENTAL SETUP)

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The terrain of Hong Kong is characterised by the abundance existence of mountains and tall buildings with average heights over than 100 m. Both the mountains and tall buildings significantly alter wind flows and thus have immense influences on the urban wind environment in Hong Kong. Therefore, the influences of mountains and buildings have a paramount importance in assessing urban wind environments such as in the Air Ventilation Assessment (AVA). The accuracy of AVA, thus understandably, depends on the success of replicating individual and mutual effects of mountains and buildings in the AVA procedure. In regards to AVA, the mutual effects of mountains and buildings are one of the major sources of error, which impedes the accuracy of AVA. One such a mutual effect is the interactions of buildings and approaching twisted wind profiles, for which no successful modelling method is available in the current AVA procedure. 11 point Time New Roman

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城市的夜景

描述已自动生成

Fig 1. The name of the figure

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 Eq (1) where, *VR500,i,j*is the velocity ratio in a wind direction at a given location with respect to the mean wind speed at the 500 m height over an open terrain, *Vp,i,j*is the measured mean wind speed at the pedestrian-level at a given location and a wind direction, *V500,open*is the mean wind speed at the 500 m height over an open terrain, *(V2m,i)1:400* is the wind speed at the 2 m height of the simulated wind profile in the detailed AVA test model (1:400 length scale), and *pi* is the probability of occurrence of wind in *i*th wind direction.

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Table 1. Adopted wind profiles and adjusted probability of occurrence of winds in 16 wind directions

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Wind Direction | Yaw angle @ 25 m | Wind profile | Probability of occurrence of wind | | |
| No-shift (%) | Threshold (%) | Proportional (%) |
| 22.5 | -5.2 | CWP | 8.17 | 16.48 | 9.68 |
| 45 | -11.5 | TWP13 | 8.32 | 14.72 | 14.76 |
| 67.5 | -23.6 | TWP22 | 14.72 | 24.04 | 20.75 |
| 90 | -17.3 | CWP | 24.04 | 5.03 | 12.25 |
| 112.5 | -26 | TWP22 | 5.02 | 3.29 | 3.44 |
| 135 | -22.2 | TWP22 | 3.29 | 0.00 | 2.45 |
| 157.5 | -0.2 | CWP | 3.09 | 3.09 | 2.39 |
| 180 | 10.3 | CWP | 4.32 | 4.32 | 3.84 |
| 202.5 | 0.5 | CWP | 3.03 | 3.03 | 3.30 |
| 225 | -0.6 | CWP | 4.76 | 4.75 | 5.17 |
| 247.5 | -7.1 | CWP | 3.22 | 3.23 | 3.38 |
| 270 | -5.1 | CWP | 2.46 | 3.39 | 2.27 |
| 292.5 | -13 | TWP13 | 0.93 | 0.63 | 0.86 |
| 315 | -15.5 | CWP | 0.63 | 1.72 | 0.98 |
| 337.5 | 13.7 | TWP13 | 1.72 | 0.00 | 3.60 |
| 360 | -4.8 | CWP | 12.28 | 12.28 | 10.87 |
| **Total** | | | **100** | **100** | **100** |

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RESULTS

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CONCLUSIONS

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