Abstract

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An Expert Opinion Survey for Transit Stop Planning.

Transit stop plays a very important role in improving transit system performance, maintaining traffic flow, and enhancing passengers’ safety and security perception. Different transit stop factors are studied by researchers and are reported in transit agency manuals. While useful, very few studies are conducted to determine the priority order of these factors. Further, transit agencies provide best practices in a generalized form without categorizing them into city size. To cover these gaps, an expert opinion survey was conducted among transit planners across Canada, using Canadian Urban Transit Association (CUTA) membership directory as survey population. For content validity, Delphi method was applied for factor Selection and the survey yields a content validity index of 0.78. For construct validity, hypothesis testing was applied, and the survey also passed construct validity test. For survey reliability, Cronbach’s alpha was applied, and the survey yields an alpha value of 0.75. In general, the survey suggests that land-use is the major factor which dictates the location and spacing of transit stop while real-time information is the most important design factor for improving ridership. Further, the survey responses also suggested that best practices for providing any amenity is context specific and are lower for small cities than that for large cities.