A BWS application to identify factors affecting user preferences for parking choices at university campuses

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Abstract

Parking around university campuses has become a major issue in recent decades because of nearby congestion impacts. *Objective:* To determine the factors influencing parking lot selection, which is crucial to propose adequate parking demand management strategies. *Materials and Methods:* We evaluate different attributes using a best-worst scaling survey applied at Universidad de la Costa (CUC), Colombia. Using discrete choice modeling techniques, we identified the extent to which selected infrastructure attributes influence parking behavior. *Results:* Security and cover (roof) availability are the most relevant attributes of parking choice in the case study. *Conclusions:* Based on our results, we strongly recommend implementing a dynamic pricing rate, roof pricing, removing "reserved spots" and investing in security.

Palabras clave

escala maxdiff, logit multinomial, elección de parqueaderos, gestión de parqueaderobestworst scaling, multinomial logit, parking choice, parking management