

New Trends in analyzing and modeling Public Transportation and Its Quality of Services

Special Issue Call for papers from ‘The Open Transportation Journal’

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Key Dates

Full Paper Submission Date: 15th November, 2018

Interested authors can address their queries to guest editors.

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What is this special issue about?

Information

The concept of quality has been extensively applied to Public Transit (PT) as it covers so many diverse topics such as comfort and safety inside the vehicle, journey times and even the convenience of the service and the existence of supporting infrastructure (Molinero and Sanchez, 1997; Litman, 2008; Hensher et al., 2003). The measurement of transit service quality is very important for guaranteeing a transport supply characterized by satisfactory service levels for the passengers. Even more important is the monitoring of the levels of service quality over time, which can be very useful to determine if the goals established by the transport planners are being met or exceeded

Theme

The quality of public transit (PT) services has proven to be a major influence on attracting and retaining riders. However, PT systems require constant improvement to attract and retain the maximum number of users and:

1. To achieve a reduction in the use of private transport, at the same time reducing local congestion and pollution;
2. To provide an alternative for vulnerable groups who do not have options other than PT; and
3. To improve the economic efficiency of PT contracts and concessions, which is beneficial for both the authorities (lower subsidies to maintain the service) and the operators (a more attractive and hence more competitive market).

Scope

This special issue aims to publish research that analyzes the perceived or expected quality in different PT systems (Bus, Tram, Railway, Cable transport, Maritime, etc.) considering all scenarios (Urban, Interurban, Touristic, etc.) and therefore, seeks to improve the existing knowledge on user satisfaction and its influence on demand and contractual efficiency. All relevant research addressing the measurement, analysis and modelling of perceived quality is welcomed as well as work addressing the integration of perceived quality in PT contractual schemes or operations.

Potential topics include, but are not limited to:

1. Data collection methodologies for perceived quality including cutting edge technologies, digital devices (mobile apps, tablets, etc.) and sensors (accelerometers, thermometers, etc.), which will enable linking objective data, such as ambient temperature, with users' perceptions;
2. Data collection in real time using new telecommunications technologies;
3. Modeling of the users' perceived quality using different methodologies: econometric models, neural networks, decision trees, Best-Worst scaling, etc.;

4. Analysis of spatial effects such as spatial correlation and spatial heterogeneity on perceived quality evaluations;
5. The influence of perceived quality in PT contracts and concessions, and new methodologies to implement perceived quality and bonus/malus systems in contracts;
6. Development of models or management criteria in order to achieve the biggest effect in customers' satisfaction with limited resources.

Submission Methods and Timeline

Deadline for submitting the full papers: **15 November 2018**

Online Submission Link:

<http://bsp-cms.eurekaselect.com/index.php/TOTJ/user/register>

Inquiries

Prospective authors are encouraged to contact the guest editors for feedback and comments about the topics of the research papers.

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