



Taxi management

Number 25, 2010

1 **ACT taxi industry review: discussion paper**

Australian Capital Territory, Canberra, ACT, April 2010

Australian Capital Territory (ACT) Government sought to comprehensively appraise the performance of ACT taxi industry and recommend ways to improve service levels. This review paper also included an invitation for submissions (now closed).

Online [accessed 20 October 2010]. [Click here](#) to view

2 **Adaptive routing of multiple taxis by mutual exchange of pathways**

Yamamoto K, Uesugi K, Watanabe T

International Journal of Knowledge Engineering and Soft Data Paradigms 2010
Volume 2, Number 1, pages 57-69

"Cruising" taxis are not able to take advantage of technology for despatching. This paper proposes an adaptive routing model to ensure more customers are collected, with less road congestion.

3 **Comparison of environmental benefits between satellite scheduled dispatching and cruising taxi services**

Hsuan WC, Chang SKJ, Chihhsu L

Transportation Research Board 89th Annual Meeting, 2010
Paper number 10-2507

To reduce inefficiencies and over-supply of taxis in the Taipei, Taiwan metro area, the public authority has encouraged taxis to be equipped with global positioning systems/geographic information systems (GPS/GIS) for implementation of automatic dispatching services. This paper aims to evaluate the environmental benefits of the GPS/GIS-based scheduled dispatching services compared with conventional cruising.

4 **Context-aware taxi demand hotspots prediction**

Chang H, Tai Y, Hsu JY

International Journal of Business Intelligence and Data Mining, 2010
Volume 5, Number 1, pages 3-18.

This paper uses historical data to predict urban area taxi demand distributions with respect to factors of time, weather, and taxi location. Results are demonstrated in a web mash-up application designed to show that context-aware demand prediction can assist the management of taxi fleets.

- 5 Hydrogen fuel cell taxi: safety analysis experiences**
Herath I, Madely D, Bradshaw B
4th IET International Conference on System Safety, October 2009
6 pages
- A consortium is developing a hydrogen fuel cell powered London Taxi prototype. This is a safety analysis, showing an overview of the safety differences of hydrogen and conventional fuels.
- 6 Identifying demand and optimal location for taxi ranks in a liberalized market.**
Cooper J, Farrell S, Simpson P
Transportation Research Board 89th Annual Meeting, 2010
Paper number 10-3146
- This paper reviews the background and current potential for transit-taxi service implementation in the United States and internationally, including service design options, operational studies and presentation of case studies.
- 7 Industry information paper: taxi driver standards reform: a review of taxi driver standards, licensing and training requirements in Queensland**
White, K
Queensland Department of Transport and Main Roads, July 2009
- This discussion paper aims to outline key issues relating to taxi driver authorisations, driver training and industry service standards, along with proposed policy and legislative changes.
- Online [accessed 20 October 2010]. [Click here](#) to view
- 8 Influence of road safety on taxi organisational economic stability: a need for proactive change**
Rowland BD, Davey JD, Wishart DE, Freeman J
Australasian Transport Research Forum, 31st, Gold Coast, Queensland, 2008
- Paper reporting the results of a survey of Queensland taxi driver attitudes and behaviours, in the context of current legislation and research.
- Online [accessed 20 October 2010]. [Click here](#) to view
- 9 Improving mobility through enhanced transit services: transit taxi service for areas with low passenger demand density**
Li Y, Miller M, Cassidy M
Research report, UCB-ITS-PRR-2009-18.
Institute of Transportation Studies, University of Berkeley, California, 2009
- Provision of transit taxi services in areas of low demand patterns are examined in this US report, using extensive modelling and offering the design of a pilot test program.
- Online [accessed 20 October 2010]. [Click here](#) to view

- 10 Obstructive sleep apnoea among professional taxi drivers: a pilot study**
Firestone RT, Mihaere K, Gander PH
Accident Analysis and Prevention, 2009
Volume 41, Number 3, pages 552-526
- Paper reporting on a study to identify obstructive sleep apnoea syndrome risk factors amongst taxi drivers, based on a survey of New Zealand drivers.
- 11 Potential cost savings from taxi paratransit programs**
Burkhardt JE, Yum J, Doherty J, Rubino J
Transportation Research Board 89th Annual Meeting, 2010
Paper number 10-2455
- This study examines the roles that taxis currently play in paratransit services, including discussion of successful management strategies.
- 12 Queensland taxi strategic plan 2010-2015: a vision for the future and action plan for the next 5 years**
Queensland Department of Transport and Main Roads, 2010
- Strategic planning document produced by the Queensland Taxi Industry Advisory Committee to guide the taxi system for five year period to 2015.
- Online [accessed 20 October 2010]. [Click here](#) to view
- 13 Report on investigation into the taxi industry in Queensland by the Queensland Workplace Rights Ombudsman**
Queensland Workplace Rights Ombudsman, June 2010
- Overview of multiple workplace issues and complaints received by the Queensland Workplace Rights Ombudsman from within the taxi industry. Includes recommendations for changes to legislation, driver training and workplace rules.
- Online [accessed 20 October 2010]. [Click here](#) to view
- 14 Taxi! Urban economies and the social and transport impacts of the taxicab**
Cooper J, Mundy R, Nelson J
Ashgate Publishing, Farnham, Surrey, UK
- Book detailing the history, law, economics and sociology of the taxi industry, with examples from the US and the United Kingdom.

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