



Transportation Science

Publication details, including instructions for authors and subscription information:
<http://pubsonline.informs.org>

Subject Index

To cite this article:

(2001) Subject Index. Transportation Science 35(4):437-438. <https://doi.org/10.1287/trsc.35.4.437.10436>

Full terms and conditions of use: <https://pubsonline.informs.org/Publications/Librarians-Portal/PubsOnLine-Terms-and-Conditions>

This article may be used only for the purposes of research, teaching, and/or private study. Commercial use or systematic downloading (by robots or other automatic processes) is prohibited without explicit Publisher approval, unless otherwise noted. For more information, contact permissions@informs.org.

The Publisher does not warrant or guarantee the article's accuracy, completeness, merchantability, fitness for a particular purpose, or non-infringement. Descriptions of, or references to, products or publications, or inclusion of an advertisement in this article, neither constitutes nor implies a guarantee, endorsement, or support of claims made of that product, publication, or service.

© 2001 INFORMS

Please scroll down for article—it is on subsequent pages



With 12,500 members from nearly 90 countries, INFORMS is the largest international association of operations research (O.R.) and analytics professionals and students. INFORMS provides unique networking and learning opportunities for individual professionals, and organizations of all types and sizes, to better understand and use O.R. and analytics tools and methods to transform strategic visions and achieve better outcomes. For more information on INFORMS, its publications, membership, or meetings visit <http://www.informs.org>

Subject Index

A

- Abstracts
 - 2000 Transportation Science Section Dissertation Prize Competition, 99–103
- Advanced traveler information systems, route guidance in, 37–49
- Airlines
 - crew scheduling with regularity, 359–374
 - seat allocation, passenger diversion and no-shows, 80–98
- Algorithms
 - dynamic traffic equilibrium assignment, with queues, 389–404
 - neighborhood descent, for undirected capacitated arc routing, 425–434
 - single-depot vehicle scheduling (SDVS), 165–180

B

- Benders decomposition, simultaneous aircraft and crew scheduling routing, 375–388
- Bus stops, modeling of, in transit networks, 304–321

C

- Cell-transmission model, traffic control formulation, 148–164
- Commute activity-travel pattern, modeling of, 61–79
- Congestion, effects on passengers' choices, general transit networks, 250–267

D

- Dispatching buses, in parking depots, 322–330
- Dynamic traffic equilibrium, efficient algorithm for, 389–404
- Dynamic user equilibrium, with queues, 389–404

E

- Emissions, model to improve mobile estimates for, locations with spatial dependence, 413–424
- Entrance capacity, automated highway system, 19–36

F

- Fixed point approaches, estimation of O/D matrices, 134–147
- Fundamental Diagram, dynamic traffic-control formulation, 148–164

G

- Generalized assignment, model for dispatching buses in parking depots, 322–330

H

- Highways and roads, automated system, entrance capacity, 19–36
- Holding
 - problem with real-time information, 1–18
 - transit vehicle problem, stochastic model for, 215–237

I

- In memoriam, Gordon F. Newell, iii–v
- Inventory/routing, using stochastic dynamic programming, 192–213

M

- Modeling
 - airline seat allocation, passenger diversion and no-shows, 80–98
 - bus stops, in transit networks, 304–321
 - commute activity-travel pattern, 61–79
 - framework for passenger assignment
 - congested transit networks, 250–267
 - transport network with timetables, 238–249
 - mean-variance model for route guidance, advanced traveler information systems, 37–49
 - network based, for traffic sensor locations, 50–60
 - O/D matrices, travel-cost coefficient and, 107–123
 - queueing theory, nonstationary traffic flow, 405–412
 - schedule-based assignment model, transit networks, 268–285
 - single-depot vehicle scheduling (SDVS), 165–180
 - stochastic, transit vehicle holding problem, 215–237
 - toll optimization, on a multicommodity transportation network, 345–358
 - weighted autoaggressive, mobile emissions estimates, 413–424
- Multiobjective metaheuristics, bus-driver scheduling problem, 331–343

N

- Noncrossing Matching, model for dispatching buses in parking depots, 322–330

O

- Origin/destination (O/D) matrix
 - estimation of, fixed point approaches to, 134–147
 - traffic sensor locations, model for, 50–60
 - travel-cost coefficient and, for congested networks, 107–123

P

- Parking depots, dispatching buses in, 322–330
- Passenger assignment
 - common-lines and, congested transit networks in a stochastic user equilibrium, 250–267
 - modeling framework for, transport network with timetables, 238–249

Q

- Queueing delay, automated highway system, 19–36

R

- Real-time information, holding problem with, 1–18
- Routing
 - aircraft, simultaneous crew scheduling, 375–388
 - mean-variance model for route guidance, advanced traveler information systems, 37–49
 - undirected capacitated arc routing problem, variable neighborhood descent algorithm for, 425–434
- Routing/inventory, using stochastic dynamic programming, 192–213

S

- Scheduling
 - bus-driver, multiobjective metaheuristics for, 331–343
 - crew
 - airline, scheduling with regularity, 359–374
 - simultaneous aircraft routing, 375–388
 - crew and vehicle, urban mass transit systems, 286–303
 - doubly dynamic assignment model, transit networks, 268–285
 - trains and containers, due dates and dynamic arrivals, 181–191
- Seat allocation model, two-class dynamic, 80–98
- Sensitivity analysis, stochastic user equilibrium network flows, 124–133
- Single-depot vehicle scheduling (SDVS), models and algorithms, 165–180
- Stochastic dynamic programming, inventory/routing problem, 192–213
- Stochastic service model, analytic, transit vehicle holding problem, 215–237
- Stochastic user equilibrium
 - O/D matrices, travel-cost coefficient and, 107–123
 - sensitivity analysis for, 124–133

T

- Toll optimization, on a multicommodity transportation network, 345–358
- Traffic control formulation, cell-based, dynamic timing plans, 148–164
- Traffic counts, on congested networks, O/D matrices using, 134–147

- Traffic flow, nonstationary, queueing theory model for, 405–412
- Traffic networks, sensitivity analysis for, 124–133
- Traffic sensors, locations, implications on O/D matrix estimates, 50–60
- Transit networks
 - bus stops in, modeling, 304–321
 - congested, common-lines and passenger assignment, 250–267
 - doubly dynamic schedule-based assignment model, 268–285
- Transit vehicles, holding problems, stochastic service model, 215–237
- Transportation networks
 - multicommodity, toll optimization, 345–358
 - with timetables, framework for passenger assignment, 238–249
- Travel-cost coefficient, O/D matrices and, for congested networks, 107–123
- Trip patterns, commuting, 61–79

U

- Undirected capacitated arc routing problem, neighborhood descent algorithm for, 425–434
- Urban mass transit systems, simultaneous vehicle and crew scheduling, 286–303

V

- Vehicle scheduling, crew scheduling and, urban mass transit systems, 286–303