
Contents

<i>List of contributors</i>	vii
1 Introduction to the <i>Handbook of Public Transport Research</i> <i>Graham Currie</i>	1
PART I RESEARCH FOUNDATIONS, TRENDS AND FUTURES	
2 World transit research: state of the art <i>Nicholas Fournier and Graham Currie</i>	9
3 Methodologies for empirical research on the link between the built environment and transit use <i>Laura Aston, Graham Currie, Md Kamruzzaman and Alexa Delbosc</i>	30
PART II USER PERSPECTIVES	
4 Transit customer satisfaction research: is the customer always right? <i>Madalena Harreman-Fernandes, Ehab Diab, Boer Cui, James DeWeese, Miles Crumley and Ahmed El-Geneidy</i>	57
5 Personal safety on public transport: research frontiers and new tools for an old problem <i>Graham Currie, Mustafizur Rahaman, Carlyn Muir and Alexa Delbosc</i>	70
6 The power of design to enrich the public transport experience <i>Selby Coxon, Robbie Napper, Ilya Fridman and Vincent Moug</i>	92
7 The paradigm shift in revenue protection research and practice <i>Graham Currie and Alexa Delbosc</i>	115
PART III POLICY PERSPECTIVES	
8 The governance of public transport: towards integrated design <i>Wijnand Veeneman</i>	137
9 The total social cost (TSC) of public transport modes <i>John Preston</i>	156
10 New approaches and insights to managing on-road public transport priority <i>James Reynolds and Graham Currie</i>	172
11 Paying for public transport <i>Joel Mendez, James Wood, Dristi Neog and Jeffrey Brown</i>	202



PART IV PLANNING AND OPERATIONAL PERSPECTIVES

- | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 12 | Public transport network resilience
<i>Menno Yap and Oded Cats</i> | 226 |
| 13 | Service reliability: a planning and operations perspective
<i>Niels van Oort</i> | 252 |
| 14 | Rail transit disruption management: a comprehensive review of strategies and approaches
<i>Amer Shalaby, Lisa Li and Ehab Diab</i> | 280 |
| 15 | Demand management in urban railway systems: strategy, design, evaluation, monitoring and technology
<i>Zhenliang Ma, Haris N. Koutsopoulos, Anne Halvorsen and Jinhua Zhao</i> | 314 |
| 16 | Transit signal priority: research and practice review and future needs
<i>Amer Shalaby, Wen Xun Hu, Mike Corby, Andrew Wong and Daniel Zhou</i> | 340 |
| 17 | ACES technologies and public transport operations and control
<i>Juan Carlos Munoz, Ricardo Giesen, Felipe Delgado and Omar Ibarra-Rojas</i> | 373 |
| 18 | Research in public transport vehicle scheduling
<i>Tao Liu and Avishai (Avi) Ceder</i> | 388 |

PART V SERVICE DEVELOPMENT AND FUTURE PERSPECTIVES

- | | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 19 | Incorporating Mobility-on-Demand (MOD) and Mobility-as-a-Service (MaaS) automotive services into public transportation
<i>Emma Lucken and Susan Shaheen</i> | 410 |
| 20 | Large increases in bus use in Sweden: lessons learned
<i>Maria Börjesson, Margareta Friman and Masoud Fadaei</i> | 434 |
| 21 | Advances in transit customer information
<i>Kari Watkins, Candace Brakewood, Sean Barbeau and Aaron Antrim</i> | 454 |
| | <i>Index</i> | 473 |