

## **PROFESSOR MICHAEL G.H. BELL, BA, MSc, PhD, FIHT, FICE, FTRF**

**Michael Bell** is the Professor of Ports and Maritime Logistics in the University of Sydney. Prior to this he was Professor of Transport Operations and Director of the Port Operations Research and Technology Centre (PORTeC) at Imperial College London. His research and teaching interests span ports, maritime and city logistics, transport network modelling and optimisation, robust vehicle navigation, traffic engineering and control, and intelligent transport systems. His Google h-index is 66 with 15791 citations (25/11/22).

### **EDUCATION**

PhD, “Modelling the Distribution of Road Freight Flows”, University of Leeds, 1981  
MSc, Transport Planning, University of Leeds, 1976  
BA, Economics, University of Cambridge, 1975

### **POSTS HELD**

Professor of Ports and Maritime Logistics, Institute for Transport and Logistics, Business School, Sydney University, Jul 2012 - date  
Professor of Transport Operations, Imperial College London, Jan 2002 – Jul 2012, and Director of the Port Operations Research and Technology Centre (PORTeC), Jan 2005 – Jul 2012  
Director of the Transport Operations Research Group (TORG), University of Newcastle, Dec 1993 – Dec 2001  
Deputy Director of TORG, University of Newcastle, May 1992 – Dec 1993  
Professor of Transport Operations, University of Newcastle, May 1996  
Reader in Transport Operations, University of Newcastle, Jun 1994 – May 1996  
"New Blood" Lecturer in Transport Operations, University of Newcastle, Oct 1984 – Jun 1994  
Alexander von Humboldt Postdoctoral Research Fellow, Institut für Verkehrswesen, Universität (TH) Karlsruhe, Aug 1982 – Oct 1984  
Research Assistant, Transport Studies Group, University College London, Oct 1979 – Jul 1982

### **LANGUAGES**

English, German

### **RECENT APPOINTMENTS**

#### Awards

Kometani-Sasaki Foundation Prize for contributions to the International Symposium on Transportation and Traffic Theory, 2023  
Doctoral Research Supervisor of the Year, University of Sydney Business School, 2021  
Professor of the Year, Beta Gamma Sigma, University of Sydney, 2021  
Distinguished Researcher Award, University of South Australia, 2010  
Emeritus member, Italian Society of Transportation Scholars, 2011  
Japan Society for the Promotion of Science (JSPS) Fellowship, 2018

#### Panel/Committee Work (since 2005)

Citizens Juror, City of Sydney 2050, August 2019 – December 2019  
PTV Scientific Advisory Board, 1 January 2017 – 31 December 2017  
External Examiner, MA in Transport Policy and Planning, Hong Kong University, 2016 -  
Adviser to the Hong Kong Polytechnic University Civil and Environmental Engineering Department preparing of the Research Assessment Exercise 2014, May 2013

Assessor for the Helmholtz Gemeinschaft on funding for “Helmholtz-CAS Joint Research Groups HCJRG”, June 2013  
 Evaluator of the Technion's Faculty of Civil and Environmental Engineering, January 2011  
 Convenor of the International Symposium on Transportation and Traffic Theory, 2009 to 2015  
 External Examiner to the MSc on International Logistics / International Shipping / Port Management / International Supply Chain Management, University of Plymouth, January 2009 to December 2012  
 Advisor to the West London Freight Quality Partnership, 2008  
 Advisor to Mayor of Bari, Italy, on landside port access, 2007  
 International Advisory Committee, Stretto di Messina Spa, 2006  
 Member of Panel reviewing the TRAIL programme, Technical University of Delft, Holland, 2006  
 Member of Panel reviewing the 13 Research Centres of Technical University of Delft, Holland, 2006  
 Expert Panel advising Transport Department on Wanchai Central Bypass, Hong Kong, 2005  
 Co-Organiser, ISTTT17 (17th International Symposium on Transportation and Traffic Theory), London, July, 2007  
 Co-Chair, 5<sup>th</sup> ICTTS (International Conference on Traffic and Transportation Studies), Xian, China, August, 2006  
 Member of Advisory Board on “Urban Transportation Network Reliability Assessment Techniques for Beijing” Project led by the Beijing Transportation Research Centre, advising the Mayor of Beijing, 2005  
 Member of Advisory Board of the Global Container Ports Performance Benchmarking Project, Hong Kong Polytechnic University, 2005

#### Keynote Speaker (since 2005)

10<sup>th</sup> Triennial Symposium on Transportation Analysis (TRISTAN X), Hamilton Island, Australia, June, 2019  
 8<sup>th</sup> International Conference on Logistics and Maritime Systems (LOGMS2018), Guangzhou, December, 2018  
 6<sup>th</sup> International Conference on Transport and Logistics (T-LOG 2016), Hsinchu, Taiwan, September, 2016  
 14<sup>th</sup> International Conference of Transportation Professionals, Changsha, July, 2014  
 Annual Conference of Transport, Trade and Service Studies, November, 2013  
 6<sup>th</sup> Travel Demand Management Symposium (TDM2013), Dalian, August, 2013  
 1<sup>st</sup> European Symposium on Quantitative Methods in Transportation Systems (LATSIS), Lausanne, Switzerland, September, 2012  
 1<sup>st</sup> International Conference on Logistics and Maritime Systems, Busan, Korea, September, 2010  
 International Conference on Greater China Supply Chain and Logistics, GCSCSCL 2006, Hong Kong, December, 2006  
 5<sup>th</sup> International Conference on Traffic and Transportation Studies, Xian, August, 2006  
 10<sup>th</sup> Hong Kong Society for Transport Studies Conference, December, 2005  
 3<sup>rd</sup> International SIIV Congress, Bari, Italy, September, 2005  
 24<sup>th</sup> Annual AISRe (Italian Regional Science Association) Conference, Naples, October, 2005

#### Invited Speaker (since 2005)

International Workshop on International Workshop on Transport Network Analysis under Emergency Situations, Gifu University, October, 2018  
 Distinguished Transport Lecture, Hong Kong University, October, 2017

First International Workshop on Maritime Transport and Logistics, Shanghai Maritime University, June, 2017  
 International Workshop on Dynamic Risk Management of Transport Networks, Tokyo Institute of Technology, March, 2017  
 International Workshop on Resilient and Sustainable TRAnsportation (i-RESTRA), Tonji University, June, 2016  
 COTA International Conference of Transportation Professionals (CICTP2014), Beijing Jiaotong University, July, 2014  
 Behaviour in Networks Workshop, Beijing Jiaotong University, June, 2013  
 Transport Networks under Hazardous Conditions Workshop, Tokyo Institute of Technology, February, 2013  
 Croucher Foundation Special Session, Hong Kong Polytechnic University, December, 2010  
 Warren Lecture, University of Minnesota, Minneapolis, October, 2008  
 National Institute of Transport and Logistics, Dublin, April, 2005  
 Reliability of Transport Systems Symposium, Delft, February, 2005  
 Road Network Reliability Workshop, Beijing, December, 2005  
 “Analysis of risk in transportation context” Conference, Paris, May, 2005  
 „Verkehrsfluss an der Schnittstelle zwischen Verkehrsmanagement und Verkehrsplanung“ Seminar, ETH, Zurich, December, 2005

#### **LONG-RUNNING APPOINTMENTS**

Associate Editor, *Maritime Policy & Management* from 2012 – 2017, *Transportmetrica A* from 2004, *Transportation Research B*, 1992 – 2008, *International Journal of ITS Research*, from 2012  
 Editorial Board, *Transportation Research B* from 2008, *Journal of Intelligent Transport Systems* (formerly *ITS Journal*) from 2002, *Journal of Shipping and Trade* from 2015  
 Series Editor, Research Studies Press series on Traffic Engineering, since 1987  
 EPSRC Peer Review College  
 Fellow of Institution of Civil Engineers, Institution of Highways and Transport and Transport Research Foundation  
 Advisor to PTV AG, Karlsruhe, since 1992 - 2012  
 Chairman, International Scientific Committee, INSTR (International Symposium on Transportation Network Reliability), since 2001  
 Member, International Advisory Committee, ISTTT (International Symposium on Transportation and Traffic Theory), since

#### **DOCTORAL WORK**

##### PhDs supervised to completion (since 2002)

Dr Anett Ehlert, “The identification of some requirements for an improved car following model”, October, 2004  
 Dr Jan-Dirk Schmoecker, “Dynamic Capacity Constrained Transit Assignment”, December, 2006  
 Dr Didik Rudjito, “The Application of Fuzzy Logic to Traffic Assignment in Developing Countries”, June, 2007  
 Dr Fengming Su, “Understanding and Satisfying Older People’s Travel Demand”, September, 2007  
 Dr Muanmas Wichienso, “An inter-modal equilibrium model of privatized transit in combination with road-based congestion charging”, November, 2007  
 Dr Tzu Chang Lee, “An Agent-Based Model to Simulate Motorcycle Behaviour in Mixed Traffic Flow”, April, 2008 (with Prof John W Polak)

Dr Ioannis Kaparias, “Reliable Dynamic In-vehicle Navigation”, September, 2008

Dr Khalid Bichou, “A benchmarking study of the impacts of security regulations on container port efficiency”, April, 2009

Dr Kyounga Park, “Learning User Preferences for Intelligent Adaptive In-vehicle Navigation”, March, 2009

Dr Panagiotis Angeloudis, “Uncertainty-aware assignment techniques for automated guided vehicles in maritime container terminals”, October, 2009

Dr Gianluca Barletta, “Analysis of the sustainability of collusion in the liner shipping industry”, July, 2010 (with Dr Eleni Hadjiconstantinou)

Dr Hu Jun, “Short-term Congestion Prediction for Vehicle Navigation”, April, 2011

Dr Konstantinos Zavitsas, “The Vulnerability of the Petroleum Supply Chain”, November, 2011

Dr Xin Liu, “Port choice: A frequency-based container assignment model”, November, 2012

Dr Precious Ikem, “Dry Port Strategies for Congested Port Cities: A Study of Lagos, Nigeria”, November, 2012

Dr Valentina Trozzi, “Strategy-based dynamic assignment in transit networks with passenger queues”, July, 2013

Dr Hamed Nikhalat, “An Operational Model for Liquefied Natural Gas Spot and Arbitrage Sales”, August, 2013

Dr Normen Rochau, “Capacity Constraints in Public Transportation”, September, 2013

Dr Collins Teye, “The siting of multi-user inland intermodal terminals in transport networks”, November, 2017

Dr Supun Perera, “Topological approach for modelling the structure, dynamics and robustness of supply chain networks”, November, 2019

Dr Shengda Zhu, “Vertical Integration in the Maritime Industry: Container Shipping Line Investment in Ports and Terminals”, November, 2020.

Dr Kam-Fung Cheung, “A Three Stage Approach to Cybersecurity Management for Logistics”, January, 2021

Dr Jun Li, “Autonomous Mobile Lockers (AMLs) for City Logistics”, July, 2022

#### PhDs examined (since 2002)

Dr Walter Wong, “A network equilibrium approach to modelling urban taxi service”, Hong Kong University, July, 2002.

Dr Pengjun Zheng, “A microscopic simulation model of merging operation at motorway on-ramps”, Southampton University, July, 2003.

Dr Karel Lindveld, “Dynamic O-D matrix estimation: A behavioural approach”, Technical University of Delft, September, 2003.

Dr Silvio Nocera, “Steuerung des Sektorbetriebs bei nachfrageabhaengiger OEPNV-Bedienung”, Technical University of Munich, February, 2004.

Dr Richard Clegg, “Statistics of dynamic networks”, York University, June, 2004.

Dr Theodora Polenta, “Incorporating uncertainty in real-time route guidance systems”, Nottingham Trent University, June, 2005.

Dr Achille Fonzone, “Impact of congestion charging on shopping in London”, Politecnico di Bari, September, 2005.

Dr Birgit Dugge, “Simultanes Erzeugungs-, Verteilungs-, Verteilungs-, Aufteilungs- und Routenwahlmodell”, Technische Universitaet Dresden, April, 2006.

Dr Sanska Sirivadidurage, “Bus priority and queue relocation using prelocation using pre-signals”, Southampton University, June, 2006.

Dr Xu Wei, “Development of Practical Implementation Methods for Road Pricing”, Hong Kong University of Science and Technology, December, 2006.

- Dr Xiao Feng, “Game-theoretic Models for Competitive Pricing and Network Design Problems”, Hong Kong University of Science and Technology, December, 2006.
- Dr Axel Leonhardt, „Ein instanzbasiertes Lernverfahren zur Prognose von Verkehrskenngrößen unter Nutzung räumlich-zeitlicher Verkehrsmuster“, Technical University of Munich, November, 2008
- Dr Minwei Li, “Robustness Analysis for Road Networks: A framework with combined DTA models”, Technical University of Delft, December, 2008
- Dr Philip Froehlich, „Änderungen der Intensitäten im Arbeitspendlerverkehr von 1970 bis 20002“, ETH, Zurich, July, 2008
- Dr Victor Knoop, “Road Incidents and Network Dynamics: Effects on driving behaviour and traffic congestion”, Technical University of Delft, December, 2009
- Dr Nagendra Velaga, “Development of a weight-based approach to map matching”, University of Nottingham, July, 2010
- Dr Erik Jenelius, “Large-scale road networks vulnerability analysis”, KTH, Stockholm, October, 2010
- Dr Maaïke Snelder, “Designing robust road networks: A general design method applied to the Netherlands”, Technical University of Delft, December, 2010
- Dr Alexander Erath, “Vulnerability assessment of road transport infrastructure”, ETH, Zurich, April, 2011
- Dr John Lees-Miller, “Empty vehicle redistribution for Personal Rapid Transit”, Bristol University, September, 2011
- Dr Susilawati, “Modeling urban arterial road travel time variability”, University of South Australia, April, 2012
- Dr Tung Mai Le, “An adaptive signal-vehicle cooperative control system”, University of New South Wales, August, 2012
- Dr Jiang Xinjia, “Space-sharing strategies for storage yard management in a transshipment hub port”, National University of Singapore, January, 2013
- Dr John Shrewsbury, “Calibration of distribution by General Linear Models”, University of Canterbury, February, 2013
- Dr Ming Lu, “RP and SP data-based travel time reliability analysis”, ETH, Zurich, December, 2013
- Dr Hyan-Chan Kim, “Developing a Mode Choice Model for New Zealand Freight Transportation”, University of Canterbury, September, 2014
- Dr Justin Pyvis, “Institutions, Efficiency and the Organisation of Seaports”, Murdoch University, December, 2014
- Dr Sun Lijun, “Research on Urban Transit Reliability Using Smart Card Data”, National University of Singapore, May, 2015
- Dr Dusan Ku, “Research on Marine Terminal Logistics: Crane Double Cycling Model”, University of Auckland, July, 2015
- Dr Pablo Ernesto Achurra Gonzalez, “A quantitative framework for the assessment of transport vulnerability in container liner service networks”, Imperial College London, December, 2017
- Dr Yuanjun Feng, “Yard Operations Optimisation at Maritime Terminals under Uncertain Truck Arrivals: Container Stacking, Retrieval, and Relocation”, University of Liverpool, November, 2021
- Dr Andrew Perrykkad, “Cutting-Planes, Trains, and Automobiles: Methods and models for optimising metropolitan container transportation”, Monash University, May 2022
- Dr Son Nguyen, “Analysis of Operational Risks in Container Shipping under the Impact of Blockchain Application”, University of Tasmania, July 2022

Dr VO Dang Khoa, “Modeling Household Joint Activity-travel Choices in Multi-modal Transportation Networks: An Activity-based Network Equilibrium Approach”, Hong Kong Polytechnic University, August 2022

#### **RESEARCH GRANTS SINCE 2002**

- 2002 – 2003 Door-to-door transport for disabled trip-makers (Principal Investigator, Transport for London, 12 months)
- 2003 – 2004 Demand for door-to-door services (Principal Investigator, Transport for London, 6 months)
- 2003 – 2007 MOSCUE – Multi-Objective Signal Control for Urban Environments (Principal Investigator, EPSRC- and industry-funded, 48 months)
- 2003 Analysis of the impact of congestion charging on the John Lewis store on Oxford Street (Client: John Lewis Partnership, 7 months)
- 2003 – 2004 Development of a model for the Swiss national road network using the PFE approach (Client: ETH and PTV-Swiss)
- 2004 Transit assignment guidance leading to webTAG advice (Client: DfT via a subcontract with RAND)
- 2004 Further analysis of the impact of congestion charging (Client: Transport for London, 3 months)
- 2004 – 2007 Risk-averse dynamic route guidance for in-car navigation systems (Principal Investigator, funded by BMW, 36 months)
- 2005 – 2008 Adaptive dynamic route guidance (Principal Investigator, funded by BMW, 36 months)
- 2006 Hospital accessibility in South London (Client: Guys and St Thomas Hospital Trust, 1 month)
- 2006 Design and simulation of automated check-in procedures for Dover ferry terminal (Client: Stratevolve/P&O Ferries, 3 months)
- 2007 International review of urban traffic systems (Client: Transport for London, 2 months)
- 2007 Extension and field trial of risk averse route guidance algorithm (Client: BMW, 6 months)
- 2007 Review of the South African port sector (Client: World Bank, 3 months)
- 2007 Hyperpaths in transit and traffic assignment (Client: EPSRC, 36 months)
- 2008 Robust routeing and scheduling for automated container terminals (Client: EPSRC, 36 months)
- 2008 Preparation of the BENEFIT (BENchmarking for Efficient road Infrastructure and Transport) club (Client: Transport for London, 3 months)
- 2008 Monitoring the Exhibition Road single surface scheme – Stage 1 (Client: Royal Borough of Kensington and Chelsea, 3 months)
- 2008 Auditing the MDS Transmodal Transshipment Study (Client: DfT, 12 months)
- 2009 Monitoring the Exhibition Road single surface scheme – Stage 2 (Client: Royal Borough of Kensington and Chelsea, 12 months)
- 2009 NEARCTIS: EU-funded network of excellence on traffic management and cooperative driving (Client: EU, 48 months)
- 2009 CONDUITS: EU-funded project on KPI for traffic management (Client: EU, 24 months)
- 2011 COST Action TU1004: Modelling public transport passenger flows in the era of Intelligent Transport Systems (Client: EU, 36 months)
- 2011 C-LIEGE: EU-funded project on city logistics (Client: EU, 24 months)

- 2012 Methodologies for the incorporation of congestion propagation and system reliability into transport network models for consistent multi-scale planning (Australian Research Council, Linkage Project LP130101048, A\$505,604)
- 2013 Risky Business: Using biological systems to mitigate risk in supply chains and transportation networks (Australian Research Council, Discovery Project DP140103643, 36 months, A\$508,100)
- 2014 Optimal location of intermodal terminals (International Trade Development Fund, A\$153,000, 36 months)
- 2015 Review of the Fiji maritime sector (Fijian Government, 6 months)
- 2017 Australian Freight Productivity: International Comparison and Future Trends (Australian Department of Infrastructure and Regional Development, A\$33,000, 2 months)
- 2019 Investigating the Feasibility of Adopting Co-Modality in Sydney (iMOVE Cooperative Research Centre, A\$175,000, 18 months)
- 2022 TfNSW Port Botany container supply chain study and PBLIS Behavioural Research project (Transport for NSW, A\$4,000, 1 year)
- 2022 Design of micro-decisions in automated transport (ARC Discovery Project, A\$492,500, 3 years)

#### **PUBLICATIONS FROM 2001**

- S Zhu, M G H Bell, V Schulz, M Stokoe (2023) Co-modality in city logistics: Sounds good, but how?, *Transpn Res A*, **168** (103578).
- H Ensafian, A Z Andaryan, M G H Bell, D G Geers, P Kilby, J Li (2023) Cost-optimal deployment of autonomous mobile lockers co-operating with couriers for simultaneous pickup and delivery operations, *Transpn Res C*, **146** (103958).
- C Zhou, S Zhu, M G H Bell, L H Lee, E P Chew (2022) Emerging technology and management research in the container terminals: Trends and the COVID-19 pandemic impacts, *Ocean and Coastal Management*, **230** (106318).  
<https://doi.org/10.1016/j.ocecoaman.2022.106318>.
- M Wang, C Zhang, M G H Bell, L Miao (2022) A branch-and-price algorithm for location-routing problems with pick-up stations in the last-mile distribution system, *European Journal of Operational Research*, **303**(3), 1258-1276.
- S Zhu, X Fu, M G H Bell (2021) Container shipping line port choice patterns in East Asia the effects of port affiliation and spatial dependence, *Transportation Research Part E: Logistics and Transportation Review*, **156**, 102527.
- J Li, H Ensafian, M G H Bell, D G Geers (2021) Deploying autonomous mobile lockers in a two-echelon parcel operation, *Transportation Research C*, **128**, 103155.
- K F Cheung, M G H Bell (2021) Improving connectivity of compromised digital networks via algebraic connectivity maximisation, *EJOR*, **294**(1), 353-364.
- K F Cheung, M G H Bell, J Bhattacharjya (2021). Cybersecurity in logistics and supply chain management: An overview and future research directions. *Transportation Research Part E: Logistics and Transportation Review*, **146**, 102217.
- K F Cheung, M G H Bell (2021) Attacker-Defender Model against Quantal Response Adversaries for Cyber Security in Logistics Management: An Introductory Study, *EJOR*, **291**(2), 471-481.
- K F Cheung, M G H Bell, J J Pan, S Perera (2020) An eigenvector centrality analysis of world container shipping network connectivity. *Transportation Research Part E: Logistics and Transportation Review*, **140**, 101991.

- J-J Pan, M G H Bell, K-F Cheung, S Perera (2020) Identifying container shipping network bottlenecks along China's Maritime Silk Road based on a spectral analysis, *Maritime Policy & Management*, <https://doi.org/10.1080/03088839.2020.1841312>.
- H Ando, M Bell, F Kurauchi, KI Wong, KF Cheung (2020) Connectivity evaluation of large road network by capacity-weighted eigenvector centrality analysis, *Transportmetrica A: Transport Science*, <https://doi.org/10.1080/23249935.2020.1804480>.
- M G H Bell, J-J Pan, C Teye, K-F Cheung, S Perera (2020) An entropy maximizing approach to the ferry network design problem, *Transpn Res B*, **132**, 15-28.
- S Perera, D Kasthurirathna, M Bell, M Bliemer (2020) Topological rationality of supply chain networks, *International Journal of Production Research*, 58(10), 3126-3149.
- M C J Bliemer, S T Waller, M G H Bell, M D Hickman (2019) Special issue on dynamic traffic assignment for general transport networks, *Transpn Res B*, In Press.
- J-J Pan, M G H Bell, K F Cheung, S Perera, H Yu (2019) Connectivity analysis of the global shipping network by eigenvalue decomposition, *Maritime Policy & Management*, **46**(8) 957-966.
- M G H Bell (2019) A maritime research agenda in transport policy. In: *A Research Agenda In Transport Policy*, Edgar Elgar Publishing, 79-88.
- Z Liu, T Miwa, W Zeng, MGH Bell, T Morikawa (2019) Dynamic shared autonomous taxi system considering on-time arrival reliability, *Transpn Res C*, **103**, 281-297.
- J S L Lam, Y H V Lun, M G H Bell (2019) Special issue on risk management in port and maritime logistics, *Accident Analysis and Prevention*, **123**, 397
- P E Achurra-Gonzalez, M Novati, R Foulser-Piggott, D J Graham, G Bowman, M G H Bell, P Angeloudis (2019) Modelling the impact of liner shipping network perturbations on container cargo routing: Southeast Asia to Europe application, *Accident Analysis and Prevention*, **123**, 399-410.
- C Teye, M G H Bell, M C J Bliemer (2018) Locating urban and regional terminals in a competitive environment: An entropy maximising approach, *Transpn Res B*, **117**, 971–985.
- K Zavitsas, T Zis, M G H Bell (2018) The impact of flexible environmental policy on maritime supply chain resilience, *Transport Policy*, **72**, 116-128.
- S Perera, M G H Bell, M Piraveenan, D Kasthurirathna, M Parhi (2018) Topological structure of manufacturing industry supply chain networks, *Complexity*, **2018**, <https://doi.org/10.1155/2018/3924361>.
- Z Liu, T Miwa, W Zeng, M G H Bell, T Morikawa (2018) Shared Autonomous Taxi System and Utilization of Collected Travel-Time Information, *Journal of Advanced Transportation*, <https://doi.org/10.1155/2018/8919721>.
- B Fahimnia, A Jabbarzadeh, A Ghavamifar, M G H Bell (2017) Supply chain design for efficient and effective blood supply in disasters, *International Journal of Production Economics*, **183**, 700-709.
- S Perera, M G H Bell, M C J Bliemer (2017) Network science approach to modelling the topology and robustness of supply chain networks: a review and perspective, *Applied Network Science*, **2**(33), 1-25.
- M G H Bell, F Kurauchi, S Perera and W Wong (2017) Investigating transport network vulnerability by capacity weighted spectral analysis, *Transpn Res B*, **99**, 251-266.
- C Teye, M G H Bell, M C J Bliemer (2017) Entropy maximising facility location model for port city intermodal terminals, *Transpn Res E*, **100**, 1-16.
- M G H Bell, S Perera, M Piraveenan, M Bliemer, T Latty and C Reid (2017) Network growth models: A behavioural basis for attachment proportional to fitness, *Nature Scientific Reports*, 7(42431), 1-11.



- P Paflioti, TK Vitsounis, C Teye, M G H Bell, I Tsamourgelis (2017) Box dynamics: A sectoral approach to analyse containerized port throughput interdependencies, *Transpn Res A*, **106**, 396-413.
- C Teye, M G H Bell and M C J Bliemer (2017) Urban intermodal terminals: The entropy maximising facility location problem, *Transpn Res B*, **100**, 64-81.
- T Miwa, M G H Bell (2017) Efficiency of routing and scheduling system for small and medium size enterprises utilizing vehicle location data, *Journal of Intelligent Transportation Systems*, **21**(3), 239-250.
- M G H Bell and Q Meng (2016) Special Issue on Shipping, Port and Maritime Logistics, *Transpn Res B*, **93**, 697-699.
- H Davarzani, B Fahimnia, M G H Bell and J Sarkis (2016) Greening ports and maritime logistics: A review, *Transpn Res D*, 473-487.
- B Zhou, M C J Bliemer, M G H Bell and J He (2016) Two new methods for solving the path-based stochastic user equilibrium problem, *Computer-Aided Civil and Infrastructure Engineering*, **31**(2), 100-116.
- M Raadsen, M C J Bliemer and M G H Bell (2016) An efficient and exact event-based algorithm for solving simplified first order dynamic network loading problems in continuous time, *Transpn Res B*, **92**, 191-210.
- P Angeloudis, L Greco and M G H Bell (2016) Strategic maritime container service design in oligopolistic markets, *Transpn Res B*, **90**, 22-37.
- T Zis, R J North, P Angeloudis, W Y Ochieng, M G H Bell (2015) Environmental balance of shipping emissions reduction strategies, *Transportation Research Record*, **2479**, 25 – 33.
- B Anvari, M G H Bell, A Sivakumar and W Y Ochieng (2015) Modelling shared space users via rule-based social force model, *Transpn Res C*, **51**, 83 – 103.
- I Kaparias, M G H Bell, T Biagioli, L Bellezza and B Mount (2015) Behavioural analysis of interactions between pedestrians and vehicles in street designs with elements of shared space, *Transpn Res F*, **30**, 115-127.
- S Wang, Z Liu and M G H Bell (2015) Profit-based maritime container assignment models for liner shipping networks, *Transportation Research B*, **72**, 59-76.
- T Zis, R J North, P Angeloudis, W Y Ochieng and M G H Bell (2014) Evaluation of cold ironing and speed reduction policies to reduce ship emissions near and at ports, *Maritime Economics & Logistics*, **16**(4), 1-28.
- M G H Bell, A Fonzone and C Polyzoni (2014) Depot location in degradable transport networks, *Transpn Res B*, **66**, 148-161.
- P Angeloudis, J Hu and M G H Bell (2014) A strategic reposition algorithm for bicycle-sharing schemes. *Transportmetrica A: Transport Science*, **10**(8), 759-774.
- K Bichou and M G H Bell (2014) Editorial, *International Journal of Shipping and Transport Logistics*, **6**(3), 235-7.
- M C J Bliemer, M P H Raadsen, E-S Smits, B Zhou and M G H Bell (2014) Quasi-dynamic traffic assignment with residual point queues incorporating a first order node model, *Transpn Res B*, **68**, 363-83.
- I Kaparias, M G H Bell, W Dong, A Sastrawinata, A Singh, X Wang and W Mount (2013) Analysis of pedestrian-vehicle traffic conflicts in street designs with elements of shared space, *Transportation Research Record*, **2393**, 21-30.
- V Trozzi, G Gentile, M G H Bell, and I Kaparias (2013) Dynamic user equilibrium in public transport networks with passenger congestion and hyperpaths. *Transpn Res B*, **57**, 266-285.
- M G H Bell, X Liu, J Rioult and P Angeloudis (2013) A cost-based maritime container assignment model, *Transpn Res B*, **58**, 58-70.

- S Wang, Q Meng and M G H Bell (2013) Liner ship route capacity utilization estimation with a bounded polyhedral container shipment demand pattern. *Transpn Res B*, **47**, 57-76.
- V Trozzi, I Kaparias, M G H Bell and G Gentile (2013) A dynamic route choice model for public transport networks with boarding queues. *Transport Planning and Technology*, **36**(1), 44-61.
- T-C Lee, J W Polak, M G H Bell and M R Wigan (2012) The kinematic features of motorcycles in congested urban networks. *Accident Analysis and Prevention*, **49**, 203-211.
- D M Levinson, H X Liu and M G H Bell (eds) (2012) *Network Reliability in Practice*, Springer: New York.
- F Su and M G H Bell (2012) Travel differences by gender for older people in London. *Research in Transportation Economics*, **34**(1), 35-38.
- M G H Bell, V Trozzi, S Haji Hosseinloo, G Gentile and A Fonzone (2012) Time-dependent Hyperstar algorithm for robust vehicle navigation in time-dependent stochastic road networks. *Transpn Res A*, **46**(5), 790-800.
- P Angeloudis and M G H Bell (2011) A review of container terminal simulation models. *Maritime Policy and Management*, **38**(5), 523-540.
- M G H Bell, X Liu, P Angeloudis, A Fonzone and S Haji Hosseinloo (2011) A frequency-based maritime container assignment model. *Transpn Res B*, **45**(8), 1152-1161.
- J-D Schmoecker, A Fonzone, H Shimamoto, F Kurauchi, M G H Bell (2011) Frequency-based transit assignment considering seat capacities. *Transpn Res B*, **45**(2), 392-408.
- I Kaparias, M G H Bell, J Greensted, S Cheng, A Miri, C Taylor and B Mount (2010) Development and implementation of a vehicle-pedestrian conflict analysis method: Adaptation of a vehicle-vehicle technique. *Transportation Research Record*, **2198**, 75-82.
- J-D Schmoecker and M G H Bell (2010) Traffic control: Current systems and future vision of cities. *International Journal of ITS Research*, **8**, 56-65.
- P Angeloudis and M G H Bell (2010) An uncertainty-aware AGV assignment algorithm for automated container terminals. *Transpn Res E*, **46**(3), 354-366.
- Y Y Chen, M G H Bell and K Bogenberger (2010) Risk-Averse Autonomous Route Guidance by a Constrained A\* Search. *Journal of Intelligent Transportation Systems Technology, Planning, and Operations*, **14**(3), 188-196.
- H Yang, C W Y Leung, S C Wong and M G H Bell (2010) Equilibria of bilateral taxi-customer searching and meeting on networks, *Transpn Res B*, **44**(8-9), 1067-1083.
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