

# DOINA OLARU

Associate Professor - The UWA Business School, Management and Organisations

## EDUCATION

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PhD University "Politehnica" of Bucharest Romania  
*Thesis: "Econometric Models for Demand Estimation in Urban and Rural Passengers Transport"*  
▪ awarded with distinction CUM LAUDAE - 2000.

## ACADEMIC EMPLOYMENT DETAILS

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University of Western Australia Perth, WA  
2000-2002 and 2005-onwards  
*Associate Professor (2015-present), Senior Lecturer (2011-2015), Lecturer (2000-2002 and 2005-2011), teaching in a variety of areas such as:*

*Network Management, Business Computing, Computer Modelling Applications for Business, Decision Making, Operations Control Systems, Data Analysis and Decision Making, Simulation, Transport Research Methods, Multivariate (Advanced) Data Analysis and Artificial Intelligence Applications for Business*

University "Politehnica" of Bucharest Bucharest, Romania  
1995-1999 *Assistant Professor*

*Train traffic theory, Railway stations and nodes - design and technology, Technologies in marshalling yards, Machines, tools, and devices for handling commodities*

## INDUSTRY EXPERIENCE

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CSIRO Atmospheric Research Division, Melbourne  
2003-2005  
*Post-Doctoral Research Fellow*

Working with three divisions (Atmospheric Research - CAR, Manufacturing and Infrastructure Technology - CMIT, Energy Technology - CET) in the project: "Triple bottom line assessments in transport".

Research activities: life cycle analysis of fuel emissions, exposure to pollutants and risk assessment, accessibility and social exclusion, optimisation of fuel use in road transport

1989-1995 Romanian State Railways (SNCFR) Romania  
*Engineer - Level 4 and 3*

Responsibilities on:

- timetabling, technological processes in marshalling yards and technical stations, regulations for railways activities for safety of circulation and manoeuvres, crew scheduling, commissions for opening/closing stations, changing technologies, asset management.

- commercial activities and logistics in freight and passengers transport, overload/oversize transport, tariffs.

1991 - Master of Station - Bucharest

## PREVIOUS COMPETITIVE RESEARCH FUNDING WON AFTER 2010

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Hooper, P., Bolleter, J., Foster, S., London, G., Biermann, S., Olaru, D. "Map My Say - An innovative participatory mapping tool for TOD evaluation" - LP190100558 (2020-2022, \$480k)

Biermann, S., Olaru, D., Smith, B., Chi, S., Cardell-Oliver, R., Brown, K., Jie, F., Djajadikerta, H. "Managing transport system investment risk: enhancing patronage predictions and adapting strategic asset management and appraisal processes to account for emerging trends and uncertainty", iMOVE Intelligent Transport Systems Australia ex Cooperative Research Centre CRC 2019-2021 (\$328k)

Olaru, D., Harms, T., Rosenberg, M., and Hooper, P. "Active travel: Using wearable technology to analyse daily travel behaviour", Healthway WA 2018-2019 (\$75k)

Biermann, S., Olaru, D., and Cardell-Oliver, R. (2018) "Your Move Options Analysis", WA Department of Transport (\$21k)

Biermann, S., Sun, Y., Liu, W., Reynolds, M., Olaru, D., and Bergey, P. "Enhanced short and longer-term network performance prediction capabilities through data-driven analytics and simulation", iMOVE Intelligent Transport Systems Australia ex Cooperative Research Centre CRC 2017-2019 (\$280k)

Biermann, S., Cardell-Oliver, R., Smith, B., Olaru, D., Martinus, K., Sun, Y., and Standing, C. "Smart Cities - RailSmart Wanneroo Planning Support System" - Department of the Prime Minister and Cabinet Smart Cities and Suburbs Program 2017-2019 (\$1,000k)

Olaru, D., Smith, B., and Braunl, T. "Preparing the pathway for autonomous vehicles (AV) uptake. A university-campus sustainable transport solution" - UWA Research Priority and Business School grants 2019-2020 (\$21k)

Olaru, D., Moncrief, S., Reed, T., McCarney, G., Sun, Y., Smith, B., and Biermann, S. "Addressing Future Uncertainties of Perth at 3.5 Million: What-If Scenarios for Mass Transit" - WA Department of Planning 2016-2017 (\$65k)

Piggott, L., Affleck, F., Biermann, S., Olaru, D., Smith, B. and Sun, Y. "Mass Transit Plan for Perth at 3.5 Million and Beyond" - WA Department of Transport grant 2014-2016 (\$386k)

Moniruzzaman, M., Olaru, D., and Biermann, S. "Activity Centre Accessibility" - The Royal Automotive Club of WA 2014-2015 (\$69k)

Smith, B. and Olaru, D. "Do autonomous vehicles spell the end of private vehicle ownership" - UWA Business School grant 2015-2016 (\$8k)

Purchase, S., Olaru, D., Soutar, G., Izquierdo, L., and Cooksey, R., "Modelling Network Innovation Performance Capability: A Multidisciplinary Approach" - ARC Discovery Project - DP130100570 (2013-2016, \$176k)

Olaru, D. and Smith, B., "Determinants and impacts of light-rail access as a new transport mode. Case study Perth" - UWA Business School grant 2012-2013 (\$9k)

Caspersz, D. and Olaru, D., "Value of Service Learning" UWA T&L Fellowship 2011 (\$21k)

Taplin, J.H.E., Olaru, D., Xia, C., Renlong, H., "Modelling and evaluating the joint access mode and train station choice. Park and Ride" - ARC Linkage Project - LP110201150 (2011-2015, \$322k)

Olaru, D. and Smith, B., "Valuation of housing and location attributes: Establishing prior estimates using hedonic regression analysis" - UWA Business School grant 2011-2012 (\$14k)

## AWARDS, DISTINCTIONS

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UWA Business School Excellence in Teaching Award for Postgraduate Class - April 2015

UWA Business School Excellence in Teaching Award for Undergraduate Class - March 2008

Nominations Excellence in Teaching Award UWA Business School - 2019, 2015, 2014, 2013, 2012, 2010, 2009, 2008, 2007, 2002 (undergraduate, postgraduate, and supervision)  
 Best Paper Awards: Australian Transport Research Forum - October 2015, September 2011; C.Y. O'Connor Prize of PATREC Research Forum 2010 - September 2010; ANZMAC2006 - best track paper - December 2006; Prize of the Clean Air Society - November 2003  
 Most Outstanding Mentor 2009 SIFE Australia National Championships - July 2009  
 Early Career Symposium Fellow - Australian Academy of Technological Sciences and Engineering - November 2004  
 Exceptional Achievement Award - CSIRO, Atmospheric Research - December 2003

## PUBLICATIONS

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### Refereed publications

#### Journal articles

- Cervigni, E., Renton, M., Haslam-McKenzie, F., Hickling, S., **Olaru, D.** (2020) "Describing and mapping diversity and accessibility of the urban food environment with open data and tools", *Journal of Applied Geography*, 125, <https://doi.org/10.1016/j.apgeog.2020.102352>.
- Liu, F., Kanso, A., Zhang, Y., **Olaru, D.** (2019) Culture, perceived value, and advertising acceptance: A cross-cultural study on mobile advertising", *Journal of Promotion Management*, 1-31, <https://doi.org/10.1080/10496491.2019.1612495>.
- Owaidah, A., **Olaru, D.**, Bennamoun, M., Sohel, F., Khan, N. (2019) "Review of Modelling and Simulating Crowds at Mass Gathering Events: Hajj as a Case Study", *Journal of Artificial Societies and Social Simulation*, 22(2),9 <http://jasss.soc.surrey.ac.uk/22/2/9.html>.
- Olaru, D.**, Moncrieff, S., McCarney, G., Sun, Y., Reed, T., Pattison, C., Smith, B., Biermann, S. (2019) "Place vs. Node Transit: Planning Policies Revisited", *Sustainability*, 11, 477, 1-14, <https://doi:10.3390/su11020477>.
- Jabeen, F., **Olaru, D.**, Smith, B. (2018) "Combining samples to offset nonresponse and respondent biases", *Case Studies on Transport Policy*, 6, 190-199, <https://doi.org/10.1016/j.cstp.2018.02.001>. (LP100100436)
- Olaru, D.** and Tudela, A. (2018) "Workshop Synthesis: Passive and sensor data - potential and application", *Transportation Procedia*, 32, 54-61.
- Harms, T., Gershuny, J., and **Olaru, D.** (2018) "Using time-use data to analyse travel behaviour: Findings from the UK", *Transportation Procedia*, 32, 634-648.
- Babb, C., **Olaru, D.**, Curtis, C., and Robertson, D. (2017) "Children's active travel, local activity spaces and wellbeing: A case study in Perth, WA", *Travel Behaviour and Society*, <https://doi.org/10.1016/j.tbs.2017.06.002>.
- Olaru, D.**, Mulley, C., Smith, B., and Ma, L. (2017) "Policy-led selection of the most appropriate empirical model to estimate hedonic prices in the residential market", *Journal of Transport Geography*, 62, 213-228, DOI: <https://doi.org/10.1016/j.jtrangeo.2017.06.004>. (LP110201150)
- Sun, Y., **Olaru, D.**, Smith, B., Greaves, S., and Collins, A. (2017) "Road to autonomous vehicles in Australia: an exploratory literature review", *Road and Transport Research*, 26(1), 34-47.
- Smith, B., **Olaru, D.**, Jabeen, F., Greaves, S. (2017) "Electric Vehicles Adoption: Environmental Enthusiast Bias in Discrete Choice Models", *Transportation Research D*, 51, 290-303. (LP100100436)
- Moniruzzaman, M., **Olaru, D.**, and Biermann, S. (2017) "Assessing the accessibility of activity centres and their prioritisation: A case study for Perth Metropolitan Area", *Urban, Planning, and Transport Research*, 5(1), 1-21.
- Purchase, S., Kum, C., **Olaru, D.** (2017) "An analysis of technical and commercialization paths for an innovation trajectory", *Journal of Business and Industrial Marketing*, 32(6), 848-863. (DP130100570)
- Chen, C., Xia, J.(C.), Smith, B., **Olaru, D.**, Taplin, J., and Han, R. (2017) "Influence of travel time variability on train station choice for park-and-rider users", *Transportation Research Procedia*, 25, 2473-2489. (LP110201150)
- Purchase, S., Kum, C., **Olaru, D.** (2016) "Paths, events and resource use: New developments in understanding innovation processes", *Industrial Marketing*

- Management*, 58, 123-136, DOI: <http://dx.doi.org/10.1016/j.indmarman.2016.05.020>. (DP130100570)
- Lin, T.(G.), Xia, J.(C.), Robinson, T., **Olaru, D.**, Smith, B., Taplin, J., and Cao, B. (2016) "Enhanced Huff Model for Estimating Park and Ride (PnR) Catchment Areas in Perth", WA, *Journal of Transport Geography*, 336-348, DOI: [10.1016/j.jtrangeo.2016.06.011](http://dx.doi.org/10.1016/j.jtrangeo.2016.06.011). (LP110201150)
- Izquierdo, L.R., **Olaru, D.**, Izquierdo, S.S., Purchase, S., Soutar, G. (2015) "Fuzzy Logic for Social Simulation Using NetLogo", *Journal of Artificial Societies and Social Simulation*, 18(4), <http://jasss.soc.surrey.ac.uk/18/4/1.html>. (DP130100570)
- Curtis, C., Babb, C., and **Olaru, D.** (2015) "Built Environment and Children's Travel to School", *Transport Policy*, 42, 21-33.
- Olaru, D.** and Curtis, C. (2015) "Designing TOD precincts: Accessibility and Travel Patterns", *European Journal of Transport and Infrastructure Research*, 15(1), 6-26.
- Olaru, D.** and Purchase, S. (2015) "Innovation Network Trajectories: The Role of Time and History", *Journal of Business and Industrial Marketing*, 30(3/4), 342-353. (DP130100570)
- Caspersz, D. and **Olaru, D.** (2015) "The Value of Service learning: The Student Perspective", *Studies in Higher Education*, DOI: <http://dx.doi.org/10.1080/03075079.2015.1070818>.
- Caspersz, D. and **Olaru, D.** (2015) "Why do students differ in the value they place on pro-social activities?", *Journal of Sociology*, 51(4), 1017-1038, DOI: [10.1177/1440783313492239](http://dx.doi.org/10.1177/1440783313492239).
- Albacete, X., **Olaru, D.**, Paül, V., Biermann, S. (2015) "Measuring the Accessibility of Public Transport: A Critical Comparison Between Methods in Helsinki", *Applied Spatial Analysis and Policy*, 1-28.
- Olaru, D.**, Smith, B., Xia, J.(C.), and Lin, T.(G.) (2014) "Travellers' attitudes towards Park-and-Ride (PnR) and choice of PnR station: Evidence from Perth, Western Australia", *Procedia - Social and Behavioral Sciences*, 162, 101-110. (LP110201150)
- Olaru, D.** and Purchase, S. (2014) "Rethinking Validation: Efficient Search of the Space of Parameters for an Agent-Based Model", *Australasian Marketing Journal*, 22(1), 60-68, DOI: [10.1016/j.ausmj.2013.12.010](http://dx.doi.org/10.1016/j.ausmj.2013.12.010). ((DP130100570)
- Lin, T.(G.), Xia, J.(C.), Robinson, T.P., Goulias, K.G., Church, R.L., **Olaru, D.**, Taplin, J, Han, R. (2014) "Spatial analysis of access to and accessibility surrounding train stations: a case study of accessibility for the elderly in Perth, Western Australia", *Journal of Transport Geography* 39, 111-120. (LP110201150)
- Brennan, M., **Olaru, D.**, and Smith, B. (2014) "Are Exclusion Factors Capitalised in Housing Prices?", *Case Studies on Transport Policy*, 2(2), 50-60, DOI: [10.1016/j.cstp.2014.05.002](http://dx.doi.org/10.1016/j.cstp.2014.05.002). (LP0562422)
- Purchase, S., Denize, S., and **Olaru, D.** (2014) "Innovation Network Trajectories and Resources Bundles", *Industrial Marketing Management*, 43(3), 448-459.
- Olaru, D.**, Purchase, S., and Denize, D. (2014) "Using Docking to Verify and Validate Complex Business Innovation Models", *Emergence: Complexity and Organization*, 16(2), 44-74. (DP130100570)
- Hashim, N.H., Connor, P., Murphy, J., and **Olaru, D.** (2014) "Bandwagon and Leapfrog Effects in Internet Implementation", *International Journal of Hospitality Management*, 37, 91-98.
- Smith, B. and **Olaru, D.** (2013) "Lifecycle Stages and Residential Location Choice in the Presence of Latent Preference Heterogeneity", *Environment and Planning A*, 45(10), 2495-2514, DOI: [10.1068/a4549045](http://dx.doi.org/10.1068/a4549045). (LP0562422)
- Caspersz, D. and **Olaru, D.** (2013) "Developing 'emancipatory' interest: learning to create social change", *Higher Education Research and Development (HERDSA) Journal*, 33(2), 226-241.
- Zorn, S., **Olaru, D.**, Weheim, T., Zhao, S., and Murphy, J. (2012) "Impact of Animation and Language on Banner Click-Through Rates", *Journal of Electronic Commerce Research*, 13(2), 173-183.
- Botte, M. and **Olaru, D.** (2012) "Geo-spatial analysis of Activity Spaces in a TOD environment - Tracking impacts of rail transport policy using kernel density estimation", *Road and Transport Research* 21(1), 64-81. (LP0562422)
- Caspersz, D., **Olaru, D.**, and Smith, L. (2012) "Striving for definitional clarity: What is service learning?", *The Australasian Journal of University-Community Engagement (AUCEA)*, 7(1), 1-20, available at <http://www.aucea.org.au/wp-content/uploads/Autumn2012.pdf>.

- Olaru, D.**, Smith, B. and Taplin, J. (2011) "Residential location and transit-oriented development in a new rail corridor", *Transportation Research A* 45(3), 219-237, DOI: [10.1016/j.tra.2010.12.007](https://doi.org/10.1016/j.tra.2010.12.007). (LP0562422)
- Curtis, C. and **Olaru, D.** (2010) "The relevance of traditional town planning concepts for travel minimisation", *Planning Practice and Research* 25(1), 49-75, DOI: [10.1080/02697451003625380](https://doi.org/10.1080/02697451003625380). (LP0562422)
- Murphy, J. and **Olaru, D.** (2009) "How Information Foraging Styles Relate to Tourism Demographics and Behaviours", *Journal of Vacation Marketing* 15(4), 299-309.
- Murphy, J., Hofacker, C., and **Olaru, D.** (2009) "Rigor in Research. Formative and Reflective Constructs", *Annals of Tourism Research* 36, 730-734.
- Webb, D., Nunik, K., and **Olaru, D.** (2009) "Investigating the Key Criteria for Micro Loan Provider Selection: The Case of the Poor in Kedungjati, Indonesia", *The IUP Journal of Bank Management*, Vol. VIII (3&4), 14-21, available at SSRN: <http://ssrn.com/abstract=1503783>.
- Olaru, D.**, Purchase, S., and Peterson, N. (2008) "Customer Value in Research Organizations," *Journal of Business & Industrial Marketing* 23(8), 554-565.
- Murphy, J., Schegg, R., and **Olaru, D.** (2007) "Quality Clusters: Dimensions of Email Responses by Luxury Hotels," *International Journal of Hospitality Management* 26, 743-747.
- Murphy, J., **Olaru, D.**, and Schegg, R. (2006) "Investigating the Evolution of Hotel Internet Adoption," *Information Technology & Tourism* 8(3/4), 161-177.
- Purchase, S., **Olaru, D.**, and Vaaland, T.I. (2006) "Consequences of structural changes within facilitated innovative networks", *Entrepreneurship and Innovation* 7(3), 161-171.
- Jolley, B., Mizerski, D., and **Olaru, D.** (2006) "How habit and satisfaction affects player retention for online gambling". *Journal of Business Research* 59(6), 770-777.
- Vaaland, T.I., Purchase, S., and **Olaru, D.** (2005) "When Techno-Innovative Relationships Break-up. What Happens to the Network?." *International Journal of Innovation and Technology Management* 2(3), 293-312, <http://www.worldscinet.com/ijitm/02/0203/S0219877005000496.html>.
- Olaru, D.** and Smith, B. (2005) "Modelling behavioural rules for daily activity scheduling using fuzzy logic." *Transportation* 32(4), 423-441.
- Olaru, D.** and Smith, B. (2004) "Applying ANNs to the Interaction between Land-Use and Transportation Networks: a Comparison with Multivariate Techniques", *Studies in Regional and Urban Planning* 10, 3-18.
- Purchase, S. and **Olaru, D.** (2004) "Substance in business-to-business relationships." *Journal of Business-to-Business Marketing* 11(3), 23-52.
- Murphy, J., **Olaru, D.**, Schegg, R., and Frey, S. (2003) "The Bandwagon Effect: Swiss Hotels' Web-site and E-mail Management." *Cornell Hotel and Restaurant Administration Quarterly*, 44(1), 71-87.
- Nguyen, D.T.H.-C.; Murphy, J. and **Olaru, D.** (2003) "Investigating the Adoption of Electronic Customer Service by Australian Businesses", *Managing Service Quality*, 13(6), 492-503.
- Hayasaka, S., Murphy, J., and **Olaru, D.** (2003) "Eastern and Western Consumers Online: A Structural Equation Model", *Journal of Electronic Commerce Research (Cultural Aspects of E-Commerce special issue)*.
- Zhao, W., Murphy, J., Liu, F., and **Olaru, D.** (2002) "A Comparison of Popular Chinese and US Home Pages." in Alon, I. *Chinese Economic Transition and its Impact on Marketing Strategy*, Praeger, Westport, 36-51.
- Dragu, V. and **Olaru, D.** (2000) "Accessibility measures in the public transport network. Case study: Suburban transport network in Bucharest metropolitan area." *University "Politehnica" of Bucharest, Scientific Bulletin, Series D: Mechanical Engineering*, 62(1), 119-130.

#### *Edited Books*

- Biermann, S., **Olaru, D.** and Păul, V. (Eds) (2016) *Planning Boomtown and Beyond*, UWA Publishing, Perth, WA, ISBN: 978-1-74258-908-4.

#### *Book chapters*

- Babb, C., Falconer, R., **Olaru, D.**, Duckworth-Smith, A., and Isted, R. (2016) "Transport and Land Use Functions of Four Rail Station Configurations in Perth", in Biermann,

- S., Olaru, D. and Paül, V. (Eds.) (2016) *Planning Boomtown and Beyond*, UWA Publishing, Perth, WA, Chapter 17, 424-445.
- Falconer, R., Babb, C., and **Olaru, D.** (2016) "Cities as Systems: Node and Place Conflict across a Rail Transit Network", in Biermann, S., Olaru, D. and Paül, V. (Eds.) (2016) *Planning Boomtown and Beyond*, UWA Publishing, Perth, WA, Chapter 18, 446-475.
- Jaggia, S., Kelly, A., Salzman, S., **Olaru, D.**, Srianthakumar, S., Beg, R.A. and Leighton, C. (2016) *Essentials of Business Statistics. Communicating with Numbers*, McGraw-Hill, ISBN 9781743762776, Chapters 11 and 12.
- Biermann, S., **Olaru, D.**, Taplin, J.H.E., and Taylor, M.A.P. (2015) "Pragmatic Incremental or Courageous Leapfrog [Re]Development of a Land-Use and Transport Modelling System for Perth, Australia" In Geertman, S., Ferreira, J., Goodspeed, R., and Stillwell, J. (Eds.) *Planning Support Systems & Smart Cities*, Chapter 26, Springer, 489-506.
- Purchase, S., Denize, S. and **Olaru, D.** (2014) "Using Case-Based Research for Agent-Based Modelling" In Woodside, A.G., Pattinson, H.M., Marshall, R. (Eds.) *Field Guide to Case Study Research in Business-to-Business Marketing and Purchasing*. Chp. 21, 271-288, ISBN: 978-1-78441-080-3, DOI: [10.1108/S1069-0964\\_2014\\_0000021010](https://doi.org/10.1108/S1069-0964_2014_0000021010).
- Denize, S., Purchase, S., and **Olaru, D.** (2012) *Chapter 4: Using Case Data to Ensure 'Real World' Input Validation within Fuzzy Set Theory Models*, in Meier A., Donzé L. (eds.): *Fuzzy Methods for Customer Relationship Management and Marketing: Applications and Classification*, IGI Global, 61-89, ISBN 13: 9781466600959.

### Reports

- Smith, B., **Olaru, D.**, Reed, T., Cardell-Oliver, R., and Biermann, S. (2020) "Factors Influencing Public Transport Patronage Trends: Perth 2009 to 2019", *Planning and Transport Research Centre (PATREC) Report* for the WA Department of Transport (DoT), Public Transport Authority (PTA), 107pp, iMove Project CRC 3-007, 112pp, available at <https://patrec.org/technical-reports/>.
- Robson, L., Biermann, S., Cardell-Oliver, R., **Olaru, D.**, Martinus, K., Smith, b., Chi, S., Sun, Y., Reed, T., Jie, F., Standing, C., Parsons, C., ARUP (2019) "RailSmart Technical Report", *Planning and Transport Research Centre (PATREC) Report* for the WA Department of Transport and the City of Wanneroo, Smart Cities and Suburbs Program, available at <https://resources.patrec.org/reports/projects2019/RailSmart-TechnicalReport.pdf> (dashboard at <https://railsmart.patrec.org/login>).
- Olaru, D.**, Moncrieff, S., McCarney, G., Reed, T., Sun, Y., Pattison, C., Smith, B., Biermann, S. (2017) "Addressing Future Uncertainties of Perth at 3.5 Million: 'What-If' Scenarios for Mass Transit", *Planning and Transport Research Centre (PATREC) Report* for the WA Department of Planning (DoP), WA Department of Transport (DoT), Public Transport Authority (PTA), 107pp, available at <https://resources.patrec.org/reports/projects2017/Project1-Report.pdf>.
- Smith, B., **Olaru, D.**, Huang, Y., and Biermann, S. (2015) "Stated Preference Surveys - Experimental Design", *Planning and Transport Research Centre (PATREC) Report* for the WA Department of Planning (DoP), 54pp., available at [http://www.patrec.uwa.edu.au/\\_data/assets/pdf\\_file/0006/2753529/SP\\_final\\_report\\_10Feb15\\_Public\\_version.pdf](http://www.patrec.uwa.edu.au/_data/assets/pdf_file/0006/2753529/SP_final_report_10Feb15_Public_version.pdf).
- Taplin, J.H.E., Taylor, M.A.P., **Olaru, D.**, Biermann, S. (2014). "Transport Modelling Review", *Planning and Transport Research Centre (PATREC) Report* for the WA Departments of Planning (DoP), Transport (DoT), and MRWA, 124pp., available at [http://www.patrec.uwa.edu.au/\\_data/assets/pdf\\_file/0003/2578710/2014-Transport-Modelling-Review.pdf](http://www.patrec.uwa.edu.au/_data/assets/pdf_file/0003/2578710/2014-Transport-Modelling-Review.pdf).
- Olaru, D.**, Franklin, P., and Masey, S. (2009) "Capturing Activity and Time Use in Exposure Assessments", Report for Air Pollution Health Network, Department of Health WA.
- Olaru, D.** and Marquez, L. (2005) *Transport accessibility in the Western Region*, Report for Ratio Consulting and the Western Region Employment and Industrial Development Strategy, May, 59pp.
- Grant, T., Beer, T., and **Olaru, D.** (2005) *Life Cycle Assessment of Greenhouse Gas Emissions from Proposed Primary Energy Bio-Refinery Facility*, Report JL73A/1/X04-3 to Primary Energy Pty. Ltd., June, 72pp (2 citations).
- Smith, N., Gannon, J., Marquez, L., Salim, V., and **Olaru, D.** (2004) *M4East. Issues and Trends Study*, Report for the Department of Infrastructure Planning and Natural Resources, Sydney, November, 103pp.

- Olaru, D.** and Beer, T. (2004) *Review of Road Transport Projection Models*, Report HS52B/1/D1.10, June, 87pp.
- Beer, T., Grant, T., Watson, H., and **Olaru, D.** (2004) *Life-Cycle Emissions Analysis of Fuels for Light Vehicles*, Report HA93A-C837 /1/F5.1F to the Australian Greenhouse Office, May, 78pp (2 citations).
- Beer, T., **Olaru, D.**, Van der Schoot, M., Grant, T., Keating, B., Hatfield Dodds, S., Smith, C., Azzi, M., Potterton, P., Mitchell, D., Reynolds, Q., Winternitz, J., Kierce, S., Dickson, A., Short, C., Levantis, T., and Heyhoe, E. (2003) *Appropriateness of a 350 Million Litre Biofuels Target*. CSIRO, ABARE, and BTRE Report to the Australian Government. Department of Industry Tourism and Resources, Canberra, December, [http://bitre.gov.au/publications/2003/files/cr\\_003\\_BiofuelsStudy.pdf](http://bitre.gov.au/publications/2003/files/cr_003_BiofuelsStudy.pdf), 375pp. (7 citations)
- Beer, T., Grant, T., **Olaru, D.**, and Watson, H.C. (2003) *Comparative Assessment of Shell Aquadiesel*, Report HD90A/2/D3.1, November, 61pp.

#### *Refereed full conference papers*

- Olaru, D.**, Robson, L., Biermann, S., Cardell-Oliver, R., Smith, B., Sun, C., Reed, T. (2019) "The Role of TODs in Achieving Smart and Sustainable Cities". *State of Australian Cities (SOAC) Conference*, Perth, 3-5 Dec.
- Cervigni, E., Renton, M., Haslam-Mckenzie, F., Hickling, S., **Olaru, D.** (2019) "Quantifying the urban food environment in Perth, Western Australia using multivariate methods and clustering", *State of Australian Cities (SOAC) Conference*, Perth, 3-5 Dec.
- Smith, B., **Olaru, D.**, Tang, X. (2019) Identifying Customer Segments for Autonomous Shuttles: A Quick On Board Survey, *Australasian Transport Research Forum (ATRF)*, Canberra, 30 Sep-2 Oct.
- Harms, T., **Olaru, D.**, Pattison, C (2019) "Using wearable technology to analyse daily travel behaviour", *Australasian Transport Research Forum (ATRF)*, Canberra, 30 Sep-2 Oct.
- Greaves, S., Smith, B., Arnold, T., **Olaru, D.**, Collins, A. (2018) "Autonomous Vehicles Down Under: An Empirical Investigation of Consumer Sentiment". Paper presented at the *Australasian Transport Research Forum (ATRF)*, Darwin, Australia, 30 October-1 November.
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- Olaru, D.** and Smith, B. (2002) “Fuzzy Logic Model for Daily Activities Schedule.” *The 24<sup>th</sup> Conference of the Australian Institutes in Transport Research*, Sydney, December 4-6.
- Olaru, D.** and Smith, B. (2002) “Does topological accessibility matter?” *The 24<sup>th</sup> Conference of the Australian Institutes in Transport Research*, Sydney, December 4-6.
- Olaru, D.** and Raicu, R. (2001) “Accessibility measures of transport networks. Comparison of neural networks and ‘classical’ approaches.” *The 23<sup>rd</sup> Conference of the Australian Institutes in Transport Research*, Melbourne, Australia, December 10-12.

## SUPERVISION PHD STUDENTS

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Dr Safiya Alshibani (2020) “

Dr Daniela Crisan (2018) “*Understanding spatial and personal exposure to atmospheric pollutants: a new methodological approach*”

Dr Ying Huang (2018) “*An examination of the risk parameter as a measurement of risk attitude in discrete choice modelling*”

Dr Hendrik Braun (2018) “*Dynamic Optimisation of Road Freight Transport Operations in Competitive Market Environments*”

Dr Fakhra Jabeen (2017) *“The adoption of electric vehicles: behavioural and technological factors”*

Dr Maryam Habibi (2016) *“Factors that improve negative symptoms in serious mental illness: longitudinal study in Perth, Western Australia”*

Dr Faye (Jing) Qin (2016) *“System dynamics based simulation modelling for airport revenue analysis”*

Dr Markus Botte (2015) *“The connection of urban form and travel behaviour: a geo-spatial approach to measuring success of transit oriented developments using activity spaces”*

Dr Brett Smith (2011) *“Examination of the relationship between demand elasticities and discrete choice estimates, with an application to travel behaviour”*

Dr Zeenat Abdoolakhan (2010) *“Acceptance of alternative fuel and hybrid vehicles in Australia: results based on survey data, choice modelling and elasticity estimation”*

Dr Sharif Siddique (2003) *“Development of policies to ameliorate the environmental impact of cars in Perth City, using the results of a stated preference survey and air pollution modelling”*

## OTHER ACTIVITIES

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Planning and Transport Research Centre (PATREC) Research Associate - from 2013

Member of the Association for European Transport - PSLUT Committee - from 2008

Member of the Scientific Committee of WCTRS - from 2010

Eric Pas PhD Dissertation Prize - from 2016

*Reviewer ARC Discovery and Linkage Projects* - from 2012; ARC DECRA - from 2018

*Associate Editor* - Case Studies in Transport Policy - from January 2015

Invited Editorial Board - Transportation Research A

### *Reviewer - Journals*

Socio-Economic Planning Sciences, IEEE Intelligent Transport Systems - from 2018

Travel Behaviour and Society - from 2017

Cities, Habitat International, Transportation Research D - from 2016

Studies in Higher Education - from 2014; Journal of Higher Education - from 2013

Journal of Transport Geography - from 2013; Journal of Transport and Land Use - from 2012

Transportation Research A - from 2012; Transportation Research B - from 2015

Land Use Policy - from 2012; Urban Policy and Research - 2009-2012;

Journal of Choice Modelling - from 2012

Journal of Artificial Societies and Social Simulation - from 2012

International Journal of Hospitality Management - 2010-2012; Natural Hazards - 2003, 2005

Department of the Environment, Water, Heritage and the Arts - 2008

Department of Planning and Infrastructure WA - 2006

*Reviewer conferences:*

European Transport Conference 2005-2019; ANZMAC Conference - 2005, 2006, 2009-2013, 2016-2017; IATBR - 2012, 2015; MODSIM - 2009, 2011; ATRF Conference - 2004, 2011, 2012, 2015-2018; PANAM Conference - 2004-2012; T&L Forum 2011-2013; EnviroInfo2006 Conference - 2006

*Students in Free Enterprise (SIFE) UWA (now ENACTUS) Faculty Advisor - 2008-2012*

**PROFESSIONAL MEMBERSHIPS**

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Institute of Engineers Australia (IEA) - from 1999

World Conference on Transportation Research Society (WCTRS) - from 1998

Association for European Transport (AET) - from 1998

International Association of Travel Behaviour Research (IATBR) - from 1999

Australian Society of Operations Research (ASOR) - from 2005