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Profiles:

Google Scholar | ORCID | Scopus
LinkedIn | Research Gate | Publons

EMPLOYMENT HISTORY

04/2019 – Present

Assistant Professor | Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar

- Research activities
  - Pedestrian and crowd behaviors, Driver behavior and safety, Micro-mobility and shared spaces, Travel behavior, Intelligent Transportation Systems (ITS)
- Undergraduate teaching and supervision
  - Surveying for Construction (CIV 270) for 2nd year undergraduates
  - Engineering Skills and Ethics (GENG107) for 1st year undergraduates
  - Civil Engineering Senior Design Project I and II (CVEN 401 and CVEN 402)
- Contributing to National Traffic Safety Action Plans – focusing on crowd safety during mega events, e.g., FIFA 2022
- Supervision of graduate students

11/2015 – 03/2019

Post-Doctoral Project Researcher | Institute of Industrial Science, The University of Tokyo, Tokyo, Japan

- Research activities
  - Pedestrian and crowd behavior – Experiments and modeling
  - Driver behavior on expressways
  - Modelling and simulating vehicle movements at signalized intersections - for autonomous vehicles related applications and to improve traffic simulation tools and driving simulators
  - Micro-mobility and shared spaces – Experiments, modelling and simulation
- Involvement in supervising graduate students
  - MEng work on effect of expressway geometry on driver speeding behavior
  - MEng and PhD work on pedestrian queuing behavior in front of different types of bottlenecks
  - MEng work on pedestrian safety perception under Segway involved mixed traffic conditions

04/2015 – 10/2015

Senior Lecturer (Temporary) | Department of Civil Engineering, University of Peradeniya, Kandy, Sri Lanka

- Undergraduate and postgraduate teaching
    - Transportation Planning and Traffic Engineering (CE530) for 3rd year undergraduates
    - Traffic Engineering (CE663) for PG. Dip. And MSc students
- Involvement in supervising undergraduate students
    - Final year research work on school trip model choice of junior and senior school students

04/2011 – 12/2014

Graduate Teaching Assistant/ Tutor (Casual)| Monash University, Melbourne, Australia

- Involvement in undergraduate teaching
    - Road Engineering (CIV3283) for 3rd year undergraduates
    - Transport and Traffic Engineering (CIV2282) for 2nd year undergraduates
    - Engineering Investigation (CIV3204) for 3rd year undergraduates

01/2008 – 03/2011

Transport Engineer and Modeler | Chodai Company Limited, Tokyo, Japan

- Experience gained:
    - Traffic microscopic simulation using VISSIM® including VisVAP,
    - Four step modeling and trip assignments using JICA STRADA
    - GIS applications in transportation planning using MapInfo Professional®
    - Experience in Aimsun® traffic simulation software, PERL programming language

09/2007 – 12/2007

Transport Modeler (Casual)| i-Transport Lab Company Limited, Tokyo, Japan

- Experience gained:
    - Traffic simulation/assignment using Sound™ (a mesoscopic simulation tool)

EDUCATION

04/2011 – 05/2015

Monash University | Melbourne, Australia

PhD in Civil Engineering

Thesis Title: Crowd Dynamics at Turning Phenomena: Experiments and Modeling

Supervisors: Professor Majid Sarvi, Professor Martin Burd

09/2005 – 10/2007

The University of Tokyo | Tokyo, Japan

MEng in Civil Engineering

Thesis Title: Self-learning Tool for Travel Time Estimation in Signalized Urban Networks Based on Probe Data

Supervisors: Professor Masao Kuwahara, Professor Ryosuke Shibasaki, Dr. Mark Miska

12/2000 – 03/2005

University of Moratuwa | Moratuwa, Sri Lanka

BSc in Civil Engineering, Specialized in Transportation Engineering, First-Class Honors

Graduation Thesis: Selection of the Best One Dimensional Consolidation Model for the Peaty Clay of the CKE (Colombo – Katukayake Expressway) Project

Supervisors: Professor U. G. A. Puswewala

AWARDS AND SCHOLARSHIPS

UTEC Young Researchers' Challenge Support Program, the University of Tokyo, Komaba Research Campus – Travel grant to visit University College London (UCL) for 2 weeks, 2018

Postgraduate Publications Award (Faculty of Engineering and IT, Monash University), 2014

Outstanding Publication Award (Department of Civil Engineering, Monash University), 2014

Australian Road Research Board (ARRB)-Monash Transport Research Prize, 2013

MGS (Monash Graduate Scholarship) and MIPRS (Monash International Postgraduate Research Scholarship) – Living stipend and tuition fee waiver for doctoral research at Monash University, 2011-2014

ADB–JSP (Asian Development Bank–Japan Scholarship Program) scholarship, 2005-2007 – Living stipend and tuition fee for Master's Degree Research at Tokyo University, 2005-2007

Mahapola Scholarship, Government of Sri Lanka, 2000-2004

RESEARCH PROJECTS (FUNDED)

Dias, C. (Primary Research Mentor), and Kharbeche M. "Exploring the Influence of Power Paradox on Driving Behavior and Traffic Safety". Qatar National Research Fund, UREP-26-011-5-004, Awarded (2020), Total budget of 18,500 USD.

Muley, D. and **Dias, C. (Research Mentor)**. "Assessment of driver behavior using smartphone-based application data". Qatar National Research Fund, UREP27-029-5-003, Awarded (2020), Total budget of 21,000 USD.

Alhajyaseen W., **Dias C. (PI),** Halabi O., Kharbeche M., Iryo-Asano M., and Nakamura H. "Development of Innovative Measures for Improving Pedestrian Safety Considering the Presence of Autonomous Vehicles". Funded by Marubeni (Industry-University Partnership), Awarded (2020), Total budget of 150,000 USD.

Alhajyaseen, W., Al-Attiyah, A. A., Soliman, A., Makondo, R., Kharbeche, M., **Dias C. (PI),** and Tarlochan, F., "Maladaptive driving styles among professional drivers in the State of Qatar – Educate driving instructors to help professional drivers to cope with aggression and anger in provoking situations", Funded by Qatar University (internal grants), Awarded (2021),Total budget of 300,000 QAR.

PROFESSIONAL MEMBERSHIPS

American Society of Civil Engineers (Associate member)

Institute of Transport Engineers (ITE Australia and New Zealand branch)

Engineers Australia

Institute of Engineers Sri Lanka

SERVICE TO PROFESSION AND OTHER ACTIVITIES

Thesis Examiner

International/ overseas examiner of a PhD dissertation of Indian Institute of Technology, Delhi on Crowd Evacuation Behavior, 2022

International/ overseas examiner of a PhD dissertation of Melbourne University on Traffic control for connected vehicles, 2021

International/ overseas examiner of a PhD dissertation of Melbourne University on Crowd dynamics and modeling, 2021

External overseas examiner of a Master's theses of RMIT University on Empirical evaluation of rail track degradation, 2018

External overseas examiner of a Master's theses of RMIT University on Modelling of rail track degradation, 2018

Internal examiner and college representative of three Master's theses of Qatar University, 2019-2020

Journal guest editor

- Plos One, 2020

Journal reviewer

- Physics Letters A
- Physica A
- Journal of Advanced Transportation
- Accident Analysis and Prevention
- Safety Science
- Transportation Research-Part B
- Complexity
- Journal of Geographical Systems
- IEEE Access
- PLoS ONE
- Transportation Research Record
- Transportation Research-Part E
- Sustainability (MDPI)
- IEEE Vehicular Technology Magazine
- Asian Transport Studies
- Energies (MDPI)
- Transportation Engineering (Elsevier)
- Risks (MDPI)
- Mathematics (MDPI)
- Case Studies on Transport Policy
- Applied Sciences (MDPI)
- Sensors (MDPI)
- Transportation Research Interdisciplinary Perspective
- Journal of Statistical Mechanics: Theory and Experiment
- International Journal of Intelligent Transportation Systems Research
- Iranian Journal of Science and Technology - Transactions of Civil Engineering
- International Journal of Injury Control and Safety Promotion
- Transportation in Developing Economies
- TeMA: Journal of Land Use, Mobility and Environment
- International Journal of Environmental Research and Public Health (MDPI)

Reviewer in international conferences

- Transportation Research Board (TRB) annual meeting
- IEEE international Conference on Intelligent Transportation Systems (IEEE-ITS),
- IEEE International Conference on Vehicular Electronics and Safety (ICVES)
- Eastern Asia Society for Transportation Studies (EASTS) conference
- Institute of Electronics, Information and Communication Engineers (IEICE) Transactions
- World Conference on Transport Research (WCTR) conference
- International Symposium of Transport Simulations (ISTS) & International Workshop on Traffic Data Collection and its Standardization (IWTDCS) conference

Involvement in Transport Research Board committee activities:

AHB45 - Standing Committee on Traffic Flow Theory and Characteristics

AHB65 - Standing Committee on Operational Effects of Geometrics

AP065 - Standing Committee on Rail Transit Systems

AHB15 - Standing Committee on Intelligent Transportation Systems

REFERENCES

On request

PUBLICATIONS

Journals (refereed)

1. **Dias, C.,** Abdullah, M., Lovreglio, R., Sachchithanantham, S., Rekatheeban, M., & Sathyaprasad, I. M. S. (2022). Exploring home-to-school trip mode choices in Kandy, Sri Lanka. Journal of Transport Geography, 99, 103279. https://doi.org/10.1016/j.jtrangeo.2022.103279
2. Hannun, J., **Dias, C.,** Taha, A.H., Almutairi, A., Alhajyaseen W., Sarvi M., Al-Bosta, S. (2022). Pedestrian flow characteristics through different angled bends: Exploring the spatial variation of velocity. PLoS ONE 17(3): e0264635. https://doi.org/10.1371/journal.pone.0264635
3. Zhu, H., Alhajyaseen, W. K., Iryo-Asano, M., Nakamura, H., & **Dias, C.** (2022). Defensive or competitive Autonomous Vehicles: Which one interacts safely and efficiently with pedestrians?. Physica A: Statistical Mechanics and its Applications, 128083. https://doi.org/10.1016/j.physa.2022.128083
4. Abd Rahman, N., Johari, M. S. M., & **Dias, C.** (2022). Exploratory Study on Self-Awareness and Self-Preparedness of Malaysian Rail Passengers for Emergency Evacuations. Transportation Engineering, 100105. https://doi.org/10.1016/j.treng.2022.100105
5. Mohamed, M. A. I., Abd Rahman, N., & **Dias, C**. (2021). Self-reported Likely Behaviour of Rail Passengers during an Emergency Evacuation-A Case Study of Kuala Lumpur, Malaysia, IATSS Research. https://doi.org/10.1016/j.iatssr.2021.06.004
6. **Dias, C.,** Abd Rahman, N., & Zaiter, A. (2021). Evacuation under flooded conditions: Experimental investigation of the influence of water depth on walking behaviors. International Journal of Disaster Risk Reduction, 58, 102192. https://doi.org/10.1016/j.ijdrr.2021.102192
7. **Dias, C.,** Abd Rahman, N., Abdullah, M., & Sukor, N. S. A. (2021). Influence of COVID-19 Mobility-Restricting Policies on Individual Travel Behavior in Malaysia. Sustainability, 13(24), 13960. https://doi.org/10.3390/su132413960
8. Javid, M. A., Abdullah, M., Ali, N., & **Dias, C.** (2021). Structural equation modeling of public transport use with COVID-19 precautions: An extension of the norm activation model. Transportation Research Interdisciplinary Perspectives, 12, 100474. https://doi.org/10.1016/j.trip.2021.100474
9. Zhu, H., Iryo-Asano, M., Alhajyaseen, W. K., Nakamura, H., & **Dias, C.** (2021). Interactions between autonomous vehicles and pedestrians at unsignalized mid-block crosswalks considering occlusions by opposing vehicles. Accident Analysis & Prevention, 163, 106468. https://doi.org/10.1016/j.aap.2021.106468
10. Abdullah, M, **Dias, C.,** & Oguchi, T. (2021). Road Crossing at Unmarked Mid-Block Locations: Exploring Pedestrians' Perception and Behavior. Iranian Journal of Science and Technology, Transactions of Civil Engineering. https://doi.org/10.1007/s40996-021-00701-z
11. Rahouti, A., Lovreglio, R., **Dias, C.,** Kuligowski, E., Gai, G., & La Mendola, S. (2021). Investigating office buildings evacuations using unannounced fire drills: the case study of CERN, Switzerland. Fire Safety Journal, 103403. https://doi.org/10.1016/j.firesaf.2021.103403
12. Abdullah, M., Oguchi, T., & **Dias, C.,** (2021). Relocation of Intersection Crosswalks to Nearby Mid-block Locations: Simulation-based Performance Evaluation, Jordan Journal of Civil Engineering, Vol. 15(3), pp. 393-406.
13. Almallah, M., Hussain, Q., Alhajyaseen, W. K., Pirdavani, A., Brijs, K., **Dias, C.,** & Brijs, T. (2021). Improved traffic safety at work zones through animation-based variable message signs. Accident Analysis & Prevention, 159, 106284. https://doi.org/10.1016/j.aap.2021.106284
14. Abdullah, M., Ali, N., Javid, M. A., **Dias, C.,** & Campisi, T. (2021). Public Transport versus Solo Travel Mode Choices during the COVID-19 Pandemic: Self-reported Evidence from a Developing Country. Transportation Engineering, 100078. https://doi.org/10.1016/j.treng.2021.100078
15. Abdullah, M., Ali, N., **Dias, C.,** Campisi, T., & Javid, M. A. (2021). Exploring the Traveler's Intentions to Use Public Transport during the COVID-19 Pandemic While Complying with

Precautionary Measures. Applied Sciences, 11(8), 3630. https://doi.org/10.3390/app11083630
16. Abdullah, M., **Dias, C.,** Muley, D., & Shahin, M. (2020). Exploring the impacts of COVID-19 on travel behavior and mode preferences. Transportation Research Interdisciplinary Perspectives, 8, 100255. https://doi.org/10.1016/j.trip.2020.100255
17. **Dias, C.,** Iryo-Asano, M., Abdullah, M., Oguchi, T. and Alhajyaseen, W., (2020). Modeling Trajectories and Trajectory Variation of Turning Vehicles at Signalized Intersections. IEEE Access, Vol. 8, PP. 109821 - 109834. https://doi.org/10.1109/ACCESS.2020.3002020
18. Abuhijleh, A., **C. Dias**, W. Alhajyaseen, D. Muley, (2020). Effect of U-Turns and Heavy Vehicles on Saturation Flow Rates of Left-Turn Lanes, Sustainability 2020, 12(11), 4485; https://doi.org/10.3390/su12114485
19. **Dias, C.,** Abdullah, M., Sarvi, M., Lovreglio, R. and Alhajyaseen, W., (2019). Modeling and Simulation of Pedestrian Movement Planning Around Corners. Sustainability, 11(19), p.5501. https://doi.org/10.3390/su11195501
20. Suzuki, K., Alhajyaseen, W. K. M, Imada, K., and **Dias, C.** (2019). Motorcyclists' Safety on Expressways: Subjective and Objective Evaluations. Arabian Journal for Science and Engineering, Vol. 44 (10), pp 8859–8873. https://doi.org/10.1007/s13369-019-03895-7
21. **Dias, C.**, Iryo-Asano, M., Nishiuchi, H., Todoroki, T. (2018). Calibrating a Social Force based Model for Simulating Personal Mobility Vehicles and Pedestrian Mixed Traffic, Simulation Modelling Practice and Theory, Vol. 87, pp. 395-411. https://doi.org/10.1016/j.simpat.2018.08.002
22. **Dias, C.,** and Lovreglio, R. (2018). Calibrating Cellular Automaton Models for Pedestrians Walking Through Corners, Physics Letters A, Vol. 382 (19), pp. 1255-1261. https://doi.org/10.1016/j.physleta.2018.03.022
23. **Dias, C.,** Oguchi, T., and Wimalasena, K. (2018). Drivers' Speeding Behavior on Expressway Curves: Exploring the Effect of Curve Radius and Desired Speed, Transportation Research Record: Journal of the Transportation Research Board, p.0361198118778931. https://doi.org/10.1177/0361198118778931
24. Hasegawa, Y., **Dias, C.,** Iryo-Asano, M., Nishiuchi, H. (2018). Modeling Pedestrians' Subjective Danger Perception toward Personal Mobility Vehicles, Transportation Research – Part F, Vol. 56, pp. 256-267. https://doi.org/10.1016/j.trf.2018.04.016
25. Lovreglio, R., **Dias, C.,** Song, X., Ballerini, L. (2018). Investigating Pedestrian Navigation in Indoor Open Space Environments Using Big Data, Applied Mathematical Modelling, Vol. 62, pp. 499-509. https://doi.org/10.1016/j.apm.2018.06.014
26. **Dias, C.,** Iryo, M. and Nishiuchi, H., 2017. Evaluation of Safe Avoidance Distance for Pedestrians in Personal Mobility Vehicles and Pedestrian Mixed Traffic: A Simulation Based Study. Journal of the Eastern Asia Society for Transportation Studies, Vol. 12, pp.1994-2005. https://doi.org/10.11175/easts.12.1994
27. **Dias, C.,** Sarvi, M., Ejtemai, O., Burd, M. (2015). Effects of elevated desired speed and change in desired direction on collective pedestrian flow characteristics, Transportation Research Record: Journal of the Transportation Research Board, Vol. 2490, pp. 65-75. https://doi.org/10.3141/2490-08
28. **Dias, C.,** Sarvi, M., Ejtemai, O., Shiwakoti, N. (2014). Pedestrian walking characteristics through angled corridors: An experimental study, Transportation Research Record: Journal of the Transportation Research Board. Vol. 2421, pp. 41-50. https://doi.org/10.3141/2421-05
29. **Dias, C.,** Sarvi, M., Shiwakoti N., Ejtemai O., Burd, M. (2013). Examining the impact of different turning angles on collective egress of crowds. Journal of Transportation Safety & Security, Vol. 6(2), pp. 167-181, http://dx.doi.org/10.1080/19439962.2013.831964
30. **Dias, C.,** Sarvi, M., Shiwakoti N., Ejtemai O., Burd, M. (2013). Investigating collective escape behaviours in complex situations. Safety science, Vol. 60 (December 2013), pp. 87-94. http://dx.doi.org/10.1016/j.ssci.2013.07.005
31. **Dias, C.,** Sarvi, M., Shiwakoti, N. and Burd, M. (2012), Turning angle Effect on Emergency Egress: Experimental Evidences and Pedestrian Crowd Simulation, Transportation Research Record: Journal of the Transportation Research Board, Vol. 2312, pp. 120-127. https://doi.org/10.3141/2312-12

32. **Dias, C.,** Miska, M., and Kuwahara, M. (2008), Travel time estimation on arterial roads using probe data and Bayesian network learning, International Journal of Intelligent Transport Systems Research, Vol. 6, No. 2, pp. 105-109.

Book Chapters (refereed)

1. **Dias, C.,** Kharbeche, M., Muley, D., Kashem, A., Fahed, M. A., Iral, S. V., & Abdelfattah, N. (2022). Are Professional Drivers more Aggressive than General Drivers? A Case Study from Doha, Qatar. Procedia Computer Science, 201, 16-23. https://doi.org/10.1016/j.procs.2022.03.005
2. Muley, D., **Dias, C.,** Umlai, A. H., AlArdah, H., Shah, M., Murtaza, M., & Abou-sido, F. (2022). Assessment of turn signal use at two-lane roundabouts in Doha city. Procedia Computer Science, 201, 79-86. https://doi.org/10.1016/j.procs.2022.03.013
3. Shahin, M., Abdullah, M., Muley, D., & **Dias, C.** (2022). Case studies on COVID-19 and environment. In COVID-19 in the Environment (pp. 231-248). Elsevier. https://doi.org/10.1016/B978-0-323-90272-4.00006-3
4. Zhang, J., **Dias, C.**, Sarvi, M., & Asano, M. I. (2020). Pedestrian flow characteristics through bends: Effects of angle and desired speed. Collective Dynamics, 5, 522-524. http://dx.doi.org/10.17815/CD.2020.89
5. Almallah, M., Alfahel, R., Hussain, Q., Alhajyaseen, W. K., & **Dias, C.** (2020). Empirical evaluation of drivers' start-up behavior at signalized intersection using driving simulator. Procedia Computer Science, 170, 227-234. https://doi.org/10.1016/j.procs.2020.03.034
6. Hussain, Q., Almallah, M., Alhajyaseen, W. K., & **Dias, C.** (2020). Impact of the geometric field of view on drivers' speed perception and lateral position in driving simulators. Procedia Computer Science, 170, 18-25. https://doi.org/10.1016/j.procs.2020.03.005
7. Lovreglio R., **Dias C.,** Song X., Ballerini L. (2019) Towards Microscopic Calibration of Pedestrian Simulation Models Using Open Trajectory Datasets: The Case Study of the Edinburgh Informatics Forum. In: Hamdar S. (eds) Traffic and Granular Flow '17. TGF 2017. Springer, Cham, https://doi.org/10.1007/978-3-030-11440-4_25
8. Zhang J., Iryo-Asano M., **Dias C.** (2019) Experimental Investigation of Pedestrian Queuing Behaviour. In: Hamdar S. (eds) Traffic and Granular Flow '17. TGF 2017. Springer, Cham, https://doi.org/10.1007/978-3-030-11440-4_21
9. Rahouti A., Lovreglio R., **Dias C.,** Datoussaïd S. (2019) Simulating Assisted Evacuation Using Unity3D. In: Hamdar S. (eds) Traffic and Granular Flow '17. TGF 2017. Springer, Cham, https://doi.org/10.1007/978-3-030-11440-4_30
10. **Dias, C.,** Nishiuchi, H., Hyoudo, S., Todoroki, T. (2018). Simulating Interactions between Pedestrians, Segway Riders and Cyclists in Shared Spaces Using Social Force Model, Transportation Research Procedia, Elsevier, (Eds. Yoshii, Y., Shiomi, Y., Kusakabe, T., & Wada, K.), Elsevier. Vol. 34, pp. 91-98, https://doi.org/10.1016/j.trpro.2018.11.018
11. Iryo-Asano, M., Hasegawa, Y., **Dias, C.** (2018). Applicability of Virtual Reality Systems for Evaluating Pedestrians' Perception and Behavior, Transportation Research Procedia, Elsevier, (Eds. Yoshii, Y., Shiomi, Y., Kusakabe, T., & Wada, K.), Elsevier. Vol. 34, pp. 67-74, https://doi.org/10.1016/j.trpro.2018.11.015
12. **Dias, C.**, Iryo-Asano, M., Oguchi, T. (2017). Predicting Optimal Trajectory of Left-Turning Vehicle at Signalized Intersection. Transportation Research Procedia, (Eds., Seungjae Lee and Jooyoung Kim), Elsevier, Vol. 21, pp. 240-250. https://doi.org/10.1016/j.trpro.2017.03.093
13. **Dias, C.,** Ejtemai, O., Sarvi, M., Burd, M. (2014). Exploring pedestrian walking through angled corridors under normal conditions, Transportation Research Procedia, (Eds. Duives, D., Daamen, W. & Hoogendoorn, H.), Elsevier. Vol. 2, pp. 19-25, http://dx.doi.org/10.1016/j.trpro.2014.09.004
14. Shiwakoti, N. Sarvi, M., **Dias, C.,** Burd, M. (2013) Understanding crowd panic at turning and intersection through model organisms, Pedestrian and Evacuation Dynamics 2012 (Eds. Weidmann, U., Kirsch, U. & Schreckenberg, M.), Springer, Vol. XXIV, pp. 1175-1186, http://dx.doi.org/10.1007/978-3-319-02447-9_96

Conference proceedings (refereed)

1. Abdelaal, A., **Dias, C.,** Sarvi, M., Alhajyaseen, W., Tarlochan, F. (2020). Crowd Dynamics, Management and Control at Tourist Attractions during Special Events: A Case Study at Souq Waqif using Pedestride® Crowd Simulation Tool, CIC 2020: International Conference on Civil Infrastructure and Construction, Qatar University, Doha, Qatar, February 2-5, 2020. http://dx.doi.org/10.29117/cic.2020.0045
2. **Dias, C.,** M. Iryo-Asano, M. Abdullah and T. Oguchi. A Method for Estimating Trajectories of Turning Vehicles at Signalized Intersections, 2019, In 98th Transportation Research Board (TRB) Annual Meeting, Washington D.C.,
3. Abdullah, M., Oguchi, T., and **Dias, C.** Self-Reported Pedestrian Mid-Block Crossing Behavior: Effect of Gender, Age and Region, 2019, In 98th Transportation Research Board (TRB) Annual Meeting, Washington D.C.,
4. **Dias, C.,** M. Iryo-Asano, K. Shimono and K. Nakano. Calibration of a Social Force Based Shared Space Model for Personal Mobility Vehicle and Pedestrian Mixed Traffic, In 96th Transportation Research Board (TRB) Annual Meeting, Washington D.C. 2017.01.8-12
5. **Dias, C.,** M. Iryo-Asano and T. Oguchi: Predicting optimal trajectories for left turning vehicles at signalized intersections. International Symposium of Transport Simulation and International Workshop on Traffic Data Collection and its Standardizations (ISTS & IWTDCS2016), Jeju, Korea, 2016.07
6. **Dias, C.** and M. Sarvi. Exploring the effect of turning maneuvers on macroscopic properties of pedestrian flow, 38th Australasian Transport Research Forum (ATRF), Melbourne, Australia, 2016.11
7. Gorrini, A., Bandini, S., Sarvi, M., **Dias, C.,** Shiwakoti, N. (2013). An Empirical Study on Crowd and Pedestrian Dynamics: the Impact of Different Angle Paths and Grouping, In 92nd Transportation Research Board (TRB) Annual Meeting, Washington D.C.
8. **Dias, C.,** Sarvi, M., Shiwakoti N., Ejtemai, O. (2013). Experimental study on pedestrian walking characteristics through angled corridors, 36th Australasian Transport Research Forum (ATRF), Brisbane, Australia.
9. **Dias, C.,** Sarvi, M., Shiwakoti, N. (2012). Intersecting and Merging Pedestrian Crowd Flows under Panic Conditions: Insights from biological entities, 35th Australasian Transport Research Forum (ATRF), Perth, Australia.

Conference proceedings (non-reviewed)

1. Hasegawa, Y., Iryo-Asano, M., **Dias, C.** (2017). Proposal of Subjective Danger Perception Model of Pedestrians towards Personal Mobility Vehicles, Proc. of Infrastructure Planning (JSCE), No.56, Iwate, Japan, 2017.11 (In Japanese)
2. **Dias, C.,** Iryo-Asano, M. (2017). Evaluating Collision Risk on Personal Mobility Vehicle Involved Shared Spaces. Proc. of Infrastructure Planning (JSCE), No.56, Iwate, Japan, 2017.11
3. **Dias, C.,** Oguchi, T., Wimalasena, K. (2017). Modeling Free-Flow Speed Profiles on Expressway Curve Sections based on Minimum Jerk Concept, In 15th Intelligent Transportation Systems (ITS) Symposium, Kyushu, Japan, 2017.
4. Zhang, J., Iryo-Asano, M., **Dias, C.** (2017). Experimental Investigation of Pedestrian Queue Formations before Different Types of Bottlenecks, Conference of the Japan Society of Transportation Engineers, No. 37, Pp. 39-46, Tokyo, Japan.
5. **Dias, C.,** M. Iryo-Asano, K. Shimono and K. Nakano. Experimental Analysis of Segway Rider Behavior under Mixed Traffic Conditions, In 14th Intelligent Transportation Systems (ITS) Symposium, Japan.
6. **Dias, C.,** M. Sarvi and M. Iryo-Asano. (2016). Predicting Optimal Trajectories for Constrained Pedestrian Turning Maneuvers. Proceedings of the 8th International Conference on Pedestrian and Evacuation Dynamics (PED2016), Hefei, China, 2016.10

7. **Dias, C.,** M. Iryo-Asano and T. Oguchi. (2016). Concurrent prediction of location, velocity and acceleration profiles for left turning vehicles at signalized intersections. Proc. of Infrastructure Planning (JSCE), No.53, Sapporo, Japan, 2016.05
8. Wimalasena, K., **Dias, C.,** T. Oguchi, K. Wada, and M. Iryo-Asano. (2016). Effect of Road Geometry on Free-Flow Speed: An Empirical Analysis using ETC 2.0 Data. Proc. of Infrastructure Planning (JSCE), No.53, Sapporo, Japan, 2016.05
9. **Dias, C.,** M. Miska, M. Kuwahara and H. Warita. (2009). Relationship between congestion and traffic accidents on expressways: an investigation with Bayesian belief networks. Proc. of Infrastructure Planning (JSCE), No.40, Kanazawa, Japan.