ARKOPAL K. GOSWAMI, PhD

Ranbir & Chitra Gupta School of Infrastructure Design and Management (RCGSIDM), Indian Institute of Technology Kharagpur akgoswami@infra.iitkgp.ac.in

EDUCATION

- > DOCTOR OF PHILOSOPHY, Civil Engineering, University of Virginia, Charlottesville, Virginia, USA, 2008
- MASTER OF SCIENCE, Civil Engineering, University of Virginia, Charlottesville, Virginia, USA, 2003
- > BACHELOR OF SCIENCE (ENGG.), Civil Engineering, National Institute of Technology, Jamshedpur, Jharkhand, India, 2000

EXPERIENCE

- ➤ ASSISTANT PROFESSOR, Ranbir and Chitra Gupta School of Infrastructure Design and Management, Indian Institute of Technology Kharagpur (IITKGP), Kharagpur, West Bengal, India (June 2015 current)
- ➤ **ASSISTANT PROFESSOR**, Department of Civil Engineering, Birla Institute of Technology & Science (BITS), Pilani, Rajasthan, India (Aug 2014 Jun 2015)
- PRINCIPAL TRANSPORTATION PLANNER, Hampton Roads Transportation Planning Organization, Chesapeake, Virginia, USA (Dec 2013 Jul 2014)
- > SENIOR TRANSPORTATION PLANNER, County of Loudoun, Leesburg, Virginia, USA (Nov 2010 Nov 2013)
- > SENIOR CONSULTANT, Dye Management Group, Inc., Bellevue, Washington, USA (Jul 2007 Oct 2010)

RESEARCH (ongoing/completed)

- Principal Investigator (PI India) of Developing an integrated land use transport emissions model utilizing emerging big data sources for quantifying the energy and environmental impacts of ridesharing services, awarded under the Scheme for Promotion of Academic and Research Collaboration (SPARC), in collaboration with University of Leeds, Ministry of Human Resource Development, GoI
- Principal Investigator (PI) of Assessment of emissions from thermal power plants due to energy demand from electric vehicles: Policy recommendations for renewable energy integration, awarded under the Impactful Policy Research in Social Sciences (IMPRESS) scheme, Indian Council of Social Science Research (ICSSR), Ministry of Human Resource Development, GoI
- Join Principal Investigator (J-PI) of Comprehensive Development Plan (CDP) of Talcher Coalfields, Mahanadi Coalfields Limited (MCL), Mahanadi Coalfields Limited, CI, GoI
- ➤ Principal Investigator (PI) of **Smart & Integrated Pedestrian System Design**, an Uchhatar Avishkar Yojana (UAY) initiative of the Ministry of Human Resource Development (MHRD), Government of India [COMPLETED]
- Principal Investigator (PI) to conduct research on Developing A Performance Based Asset Management Model to Forecast Roadway Infrastructure Preservation Needs in India, an Institute Scheme For Innovative Research And Development (ISIRD), IIT Kharagpur
- Principal Investigator (PI) to conduct research on **Developing a Pedestrian Master Plan for Varanasi** under the SanDHI initiative of IIT Kharagpur and IIT BHU, Ministry of Human Resource Development (MHRD), Government of India [COMPLETED]
- > Joint Principal Investigator (J-PI) of **Development of Index and Measurement of Happiness at New Town, Kolkata**, funded by the Newtown Kolkata Development Authority (NKDA), West Bengal [COMPLETED]
- Joint Consultant of Transit Oriented Development Research Project- Kolkata, funded by Nikken Sekkei Research Institute, Tokyo, Japan [COMPLETED]

INTERNATIONAL INDUSTRY PROJECTS (2007 – 2014)

- Principal Transportation Planner overseeing the development of Long Range Transportation Plan for the Hampton Roads region, Virginia, USA
- Lead planner on a project to **Plan & Improve the Bicycle and Pedestrian Network** around future metro rail stations in Loudoun County, Virginia, USA
- Reviewed and approved land use proposals to ensure that the Effects of Future Land Developments on Loudoun County's Transportation Network is mitigated, Virginia, USA
- Consultant on a National Highway Cooperative Research Program (NCHRP) project 20-74A titled Development of Service Levels for the Interstate Highway System, Dye Management Group, Inc., USA
- Lead consultant on a project that developed a **Performance Based Highway Maintenance Management Business Model** for the Alabama Department of Transportation (ALDOT), Dye Management Group, Inc., USA
- Lead consultant on a project for the Federal Highway Administration (FHWA), Office of Asset Management to Develop the Scope and Course Outline for Construction Engineers' Academy, Dye Management Group, Inc., USA

PUBLIC OUTREACH - SHORT-TERM COURSES / WORKSHOPS ORGANIZED

- Course instructor, Introduction to Multimodal Urban Transportation Systems (MUTS), National Programme on Technology
 Enhanced Learning (SWAYAM-NPTEL) course, 2020 & 2021
- Principal coordinator for Scheme for Promotion of Academic and Research Collaborations (SPARC) webinar on Shared Urban Mobility Systems: Integrating Inherent Strengths with Learnings from Developed Nations, December 2021
- Principal coordinator for Global Initiative of Academic Networks (GIAN) course on Information Technology Applications in Transportation Planning and Management, March 2019
- Coordinator, Joint International Field Workshop on Smart Infrastructure Planning to Connect People and Jobs, in collaboration with Georgia Institute of Technology, Atlanta, March 2019
- Principal coordinator for Global Initiative of Academic Networks (GIAN) course on Smart Urban Multimodal Transport Planning, Operations and Management, July 2019
- Principal coordinator for Technical Education Quality Improvement Program (TEQIP-III) course on Sustainable Cities -Planning and Designing Infrastructure for Green Urban Mobility, November 2018
- > Convener of International Symposium on Water Urbanism and Infrastructure Development in Eco-Sensitive Zones, in collaboration with Columbia University, USA, 2017
- Co-convener for workshop conducted on development of Urban Observatory (UO) with University of Strathclyde, Glasgow in conjunction with British Deputy High Commission, Kolkata, 2017
- Joint International Field Studios on Water Urbanism conducted in Kolkata & Varanasi with Columbia University, New York, 2016 & 2017
- Coordinated workshop on Engineering Asset Management in collaboration with Curtin University, Australia, 2017

NATIONAL / INTERNATIONAL ACADEMIC COLLABORATIONS

- Principal Coordinator, SGR International Faculty Outreach Program, to host Dr. Sytse de Maat, Principal of De Maat Architecture, Amsterdam, Netherlands, December 2019
- External Associate-Supervisor to PhD Research Scholar at Calcutta University, 2018
- Joint guidance of doctoral research scholar under the Indo-Korea Research Internship Program, DST, GoI, with Ajou University, Suwon, South Korea, 2017
- > Joint guidance of post-graduate student under **DAAD Scholarship Program** with TU-Munich, Germany, 2017 & 2019

TEACHING/ACADEMIA

- Lecture classes delivered on following topics at undergraduate and postgraduate levels:
 - o Financing Infrastructure Projects
 - o Infrastructure Regulatory Issues
 - o Planning, Operations, and Management of Transportation Facilities
 - o Transportation Systems Planning and Management
 - o Highway Engineering
- > Laboratory sessions conducted: Simulation, Virtual Reality, Highway Engineering, and Project Management
- ➤ Teaching Feedback Score: Core courses 4.15 / 5.0; Elective courses: 4.26 / 5.0

REFERRED JOURNAL PUBLICATIONS

- ➤ Kavta, K., Goswami, A.K. (2022) Estimating mode choice of motorized two-wheeler commuters under the influence of combined travel demand management measures: An ICLV modeling approach, **Transport Policy**, Vol. 126, pp. 327 335 https://doi.org/10.1016/j.tranpol.2022.08.004
- Nag, D., Sen, J., Goswami, A.K. (2022) Measuring connectivity of pedestrian street networks in the built walking environment: A Space-Syntax approach, Transportation in Developing Economies, https://doi.org/10.1007/s40890-022-00170-7
- Nag, D., Goswami, A.K. Measuring the built environment through image calibration using hybrid audit approach, **Journal of Transportation Engineering, Part A: Systems** (accepted for publication)
- ➢ Bhaduri, E., Goswami, A.K. Examining user attitudes towards ride-hailing services − A SEM-MIMIC Ordered Probit approach, Travel Behaviour & Society (accepted for publication)
- > Kumari, R., Banerjee, A., Goswami, A.K. Developing a Method to Remotely Estimate On-Road Vehicular Stream Emissions in Mixed Traffic Conditions, **Journal of Institute of Town Planners, India** (accepted for publication)
- Raj, P., Bhaduri, E., Moeckel, R., Goswami, A.K. Analyzing user behavior in selection of ride-hailing services for urban travel in developing countries, **Transportation in Developing Economies** (accepted for publication)
- Hussain, S., Goswami, A.K. (2022) Predicting Pedestrian Crash Locations in Urban India: An Integrated GIS-based Spatiotemporal HSID Technique, Journal of Transportation Safety & Security, https://doi.org/10.1080/19439962.2022.2048759
- Bhaduri, E., Nag, D, Goswami A.K. (2022) Impact of Street Design and Operational Factors on Level of Satisfaction of Green Transportation Users in a Large Metropolitan Area, In: A.K. Maurya, et.al. (eds), Proceedings of the Fifth International Conference of Transportation Research Group of India, Lecture Notes in Civil Engineering, 219, pp 475-501, Springer, Singapore, https://doi.org/10.1007/978-981-16-8259-9_31
- Nimesh, V., Kumari, R., Reddy, M.V., Goswami A.K. (2022) Assessment of Emission Implications on Introducing Electric Vehicles in India on the Non-Renewable Energy Sector, In: M. Parida, et.al. (eds), Proceedings of the Fifth International Conference of Transportation Research Group of India, **Lecture Notes in Civil Engineering**, 220, pp 215-229, Springer, Singapore, https://doi.org/10.1007/978-981-16-9925-2_15
- ➤ Kavta, K., Goswami, A.K., (2021) A methodological framework for a priori selection of travel demand management package using fuzzy MCDM methods, **Transportation**, Vol. 48, pp 3059-3084. https://doi.org/10.1007/s11116-020-10158-0
- Zannat, K.E., Bhaduri, E., Goswami, A.K., Choudhury, C.F. (2021) The tale of two countries: modeling the effects of COVID-19 on shopping behavior in Bangladesh and India, Transportation Letters, Vol.3, Issue 5-6, pp. 421-433 https://doi.org/10.1080/19427867.2021.1892939

- Nimesh, V., Kumari, R., Soni, N., Goswami, A.K., Reddy, M. V. (2021) Implication viability assessment of electric vehicles for different regions: An approach of life cycle assessment considering exergy analysis and battery degradation, **Energy Conversion and Management**, Vol 237, https://doi.org/10.1016/j.enconman.2021.114104
- Hussain, M.S., Kumari, R., Nimesh, V., Goswami, A.K. (2021) Assessing Impact of Urban Street Infrastructure on Pedestrian Safety Perception, Proceedings of the Institution of Civil Engineers - Urban Design and Planning, https://doi.org/10.1680/jurdp.20.00033
- ▶ Prakash, K., Nimesh, V., Hussain, S., Goswami, A.K. (2020) Study of Ambient Air Quality on Transport Network near Mining Region – A Case of Talcher Coalfield, Indian Journal of Environmental Protection, Vol 40, No. 12, pp. 1247-1254
- E. Bhaduri, B.S. Manoj, Z. Wadud, A.K. Goswami, C.F. Choudhury, (2020) Modelling the effects of COVID-19 on travel mode choice behaviour in India, **Transportation Research Interdisciplinary Perspectives**, Vol 8, November 2020, https://doi.org/10.1016/j.trip.2020.100273
- Nimesh, V., Sharma, D., Reddy, M. V., Goswami, A.K. (2020) Implication viability assessment of shift to electric vehicles for present power generation scenario of India, **Energy**, Vol 195, https://doi.org/10.1016/j.energy.2020.116976
- Nag, D., Goswami, A.K., Gupta, A., Sen, J. (2020) The three constructs of assessing urban sidewalk networks: A synthesis of Pedestrian Level of Service literature, **Transport Reviews**, Volume 40, Issue 2, pp 204-240, https://doi.org/10.1080/01441647.2019.1703841
- Bhaduri, E. Goswami, A.K., and Moeckel, R. (2020) How sustainable is the growth of mass transit system in developing countries an Indian perspective, Transportation Research Procedia, Vol 48, pp. 2706-2724, https://doi.org/10.1016/j.trpro.2020.08.244
- Kumar, G. J., Nag, D., Bhaduri, E., and Goswami, A.K. (2020) Developing a relationship between user satisfaction, physical environment, and behavior A case of pedestrian infrastructure, **Transportation Research Procedia**, Vol 48, pp. 2343-2363, https://doi.org/10.1016/j.trpro.2020.08.284
- Nag, D., and Goswami, A.K. (2019) Identification of Measures of Effectiveness (MOEs) for Developing Pedestrian Level of Service (PLOS): A Theoretical Approach using Experts' Opinion, **Journal of International Review for Spatial Planning and Sustainable Development,** Volume 7, Issue 4, pp 56-82, October 2019 https://doi.org/10.14246/irspsd.7.4 56
- Nag D., Roy A., Goswami A.K. (2019) Estimating Environmental Benefits of Electronic Toll Collection (ETC). In: Mathew T., Joshi G., Velaga N., Arkatkar S. (eds) **Transportation Research. Lecture Notes in Civil Engineering**, Vol 45, pp 441-452, October 2019, Springer, Singapore, https://doi.org/10.1007/978-981-32-9042-6_35
- Bhaduri, E., Manoj, B S, Sen, J., Maitra, B., Goswami, A. K. (2019) Measuring User Satisfaction of Pedestrian Facilities and its Heterogeneity in Urban India A Tale of Three Cities, Journal of the Eastern Asia Society for Transportation Studies, Volume 13, pp. 144-171, https://doi.org/10.11175/easts.13.144
- Nag, D., Paul, S., Saha, S., Goswami, A.K. (2018) Sustainability assessment for the transportation environment of Darjeeling, India, Journal of Environmental Management, Volume 213, February 2018, pp. 489-502 https://doi.org/10.1016/j.jenvman.2018.01.042
- Parmar, S.S., Goswami, A.K., Sen, J. (2018) Allocation of Infrastructure in city region based on resilient economic landscapes of development preparedness: Cases of districts West Bengal and West Mithila region, 6th Annual International Conference on Architecture and Civil Engineering (ACE 2018), doi: 10.5176/2301-394X_ACE18.27
- Mondal, S., et. al (2017) Utilization of Constrained Urban Spaces for Distributed Energy Generation Development of Solar Paved Walkway, **Energy Procedia**, Volume 130, September 2017, pp. 114-121 https://doi.org/10.1016/j.egypro.2017.09.406

- Goswami, A.K., Miller, J.S., Hoel, L.A. (2011) Offsite Passenger Service Facilities: A Viable Option for Airport Access?, Journal of Air Transport Management, Volume 17, Issue 5, September 2011, pp. 263-270 https://doi.org/10.1016/j.jairtraman.2011.02.014
- Miller, J.S., Goswami, A.K. (2007) Technical Assistance: A Path to Better Interagency Cooperation, Journal of Public
 Works Management & Policy, Volume 11, No. 4, April 2007, pp. 305-315 https://doi.org/10.1177/1087724X07301535
- ▶ Miller, J.S., Hoel, L.A., Goswami, A.K., Ulmer, J.M. (2006) Borrowing Residential Trip Generation Rates, ASCE Journal of Transportation Engineering, Volume 132, No. 2, February 2006, pp. 105 113 https://doi.org/10.1061/(ASCE)0733-947X(2006)132:2(105)
- Miller, J.S., Hoel, L.A., Goswami, A.K., Ulmer, J.M. (2006) Assessing the Utility of Private Information in Transportation Planning Studies: A Case Study of Trip Generation Analysis, Journal of Socio-Economic Planning Sciences, Volume 40, Issue 2, June 2006, pp.94 – 118 https://doi.org/10.1016/j.seps.2004.10.003
- ➤ B.S. Manoj, Mandar, V., Goswami, A.K. Commuters access to public transport: Estimating modal share of first and last-mile trips in Mumbai, India, **Transportation in Developing Economies** (under 2nd review)
- ➤ Vallejo-Borda, J.A., Bhaduri, E., Ortiz-Ramirez, H.A., Arellana, J., Choudhury, C.F., Rodriguez-Valencia, A., Wadud, Z., Goswami, A.K., (2021). Modelling the Covid-19 Travel Choices in Colombia and India: A Hybrid Multiple Discrete-Continuous Nested Extreme Value Approach, **Transportation Research Record** (under 2nd review)
- Shende, S; Bhaduri, E., Goswami, A.K. (2022). Analyzing Changes in Travel Patterns Due to Covid-19 Using Twitter Data in India. Case Studies on Transport Policy (under review)

CONFERENCE PROCEEDINGS/PRESENTATIONS

- Bhaduri, E., Meshram, A., Goswami, A.K. Investigating the effect of built environment on adoption and use frequency of ride-hailing service in developing countries, ASCE International Conference on Transportation & Development, Seattle, Washington, USA, May 2022
- Manoj B.S., Goswami, A.K. Prioritizing the Key Attributes in Transit-Oriented Development (TOD) Using Multi-Criteria Decision Making (MCDM) Approach, ASCE International Conference on Transportation & Development, Seattle, Washington, USA, May 2022
- Sidhart K., Manoj B.S., Goswami, A.K. An Application of Latent Class Analysis for Residential Choice Model in the Context of Transit-Oriented Development in India, ASCE International Conference on Transportation & Development, Seattle, Washington, USA, May 2022 (accepted)
- Hussain, M.S., Gupta, A., Goswami, A.K. Predicting Pedestrian Crashes and Severity Using Pseudo-Safety Indicators -An Integrated Viswalk-SSAM Approach, 50th Annual Conference of the Urban Affairs Association, Washington D. C., USA, April 2022.
- Zannat, K.E., Bhaduri, E., Goswami, A.K., Choudhury, C.F. The tale of two countries: Modelling the effects of COVID-19 on shopping behaviour in Bangladesh and India, 101st Annual meeting of Transportation Research Board (TRB), Washington D.C, USA, January 2022 (online)
- Manoj B.S., Goswami, A.K. (2022). Apriori Modal Choice Estimation for Transit Oriented Developments (TOD): A Developing Nation Context, 50th European Transport Conference, Milan, Italy (submitted)
- Manoj B.S., Goswami, A.K. (2022) **Joint Estimation utilizing Revealed and Stated Preference Datasets: An Application for First and Last Mile Mode Choice Models**, 2nd International Conference on Transportation Infrastructure Projects: Conception to Execution (TIPCE-2022), Roorkee, India, Springer Proceedings (under review)

- Raj, P., Bhaduri, E., Moeckel, R., Goswami, A.K. Analysis of the motivation to select ride-hailing service for urban travel in developing countries, 6th Conference of the Transportation Research Group of India, Tiruchirappalli, Tamilnadu, India, December 2021
- Kavta, K., Srivastava, N., Manoj, BS., Goswami, A.K., Matsumara, S. Location choice analysis for Transit Oriented Development (TOD): A case study of Kolkata, 6th Conference of the Transportation Research Group of India, Tiruchirappalli, Tamilnadu, India, December 2021
- Nag, D., Sen, J., Goswami, A.K. Measuring connectivity of pedestrian street networks in the built walking environment: A Space-Syntax approach, 6th Conference of the Transportation Research Group of India, Tiruchirappalli, Tamilnadu, India, December 2021
- Manoj, B.S., Vaidya, M., Goswami, A.K. Commuters Access to Public Transport: Estimating Modal Share of First and Last-mile trips in Mumbai, India, 6th Conference of the Transportation Research Group of India, Tiruchirappalli, Tamilnadu, India, December 2021
- Kumari, R., Banerjee, A., Goswami, A.K. Developing a method to remotely estimate on-road vehicular stream emissions in mixed traffic conditions, International Conference on Sustainable Urban Mobility (SUMo 2020), Institute of Town Planners (ITPI), West Bengal Chapter, October 2021 (online)
- Shinde, S., Bhaduri, E., Goswami, A.K. Analyzing Changes in Travel Patterns due to COVID-19 using Twitter Data in India, 49th European Transport Conference, Association for European Transport, September 2021 (online) https://aetransport.org/past-etc-papers/conference-papers-2021
- Hussain, S., Goswami, A.K., Gupta, A. Prediction of Pedestrian Crash Locations in Urban Areas: A GIS-based Spatio-temporal Hotspot Analysis, 14th Eastern Asia Society for Transportation Studies, EASTS 2021, Hiroshima, Japan, September 2021 (online)
- Bhaduri, E., Manoj, BS, Wadud, Z., Goswami, A.K., and Choudhury, C.F. Modelling the Effects of COVID-19 on Mode Choice Behaviour in India, 100th Annual meeting of Transportation Research Board (TRB), Washington D.C, USA, January 2021 (online)
- Bhaduri, E., Manoj B.S., Wadud, Z., Goswami, A.K. and Choudhury, C.F. Modelling the Effects of COVID-19 on Mode Choice Behaviour in India, 2nd Bridging Transportation Researchers (BTR) Conference, August 2020 (online) https://bridgingtransport.org/blog/conference-program/
- Nag. D., Goswami, A.K., and Sen J. Selection of Attributes for Pedestrian Level of Service Measures: A Screening Tool, 99th Annual meeting of Transportation Research Board (TRB), Washington D.C, USA, January 2020
- Nimesh, V., Kumari, R., Reddy, M.V., Goswami, A.K. Assessment of Emission Implications of Introducing Electric Vehicles in India on the Non-Renewable Energy Sector, paper presented at the 5th Conference of the Transportation Research Group of India (CTRG-2019), Bhopal, Madhya Pradesh, India, December 2019
- Nag D., Goswami A.K., Sen, J. Assessing connectivity of an urban pedestrian networks: A case of Varanasi, India. Paper presented at the 49th Annual Urban Affairs Association Conference 2019, April 2019, Los Angeles, USA
- Nag. D., Goswami, A.K., and Sen J. Measuring users' perception of urban pedestrian infrastructure networks: A conjoint analysis approach, paper presented at 98th Annual meeting of Transportation Research Board (TRB), Washington D.C, USA, January 2019
- Nag, D., Goswami, A.K. Developing pedestrian LOS for urban sidewalk network: a methodology for selection of measures of effectiveness using a three-dimensional approach, paper presented at Urban Transitions 2018, Sitges, Barcelona, Spain, November 2018

- Hussain, S, Jha, D., Goswami, A.K. Using GIS to identify vehicle crash hot spots and unsafe crossroads A case study of Kolkata, India, paper presented at 39th Asian Conference on Remote Sensing: Remote Sensing Enabling Prosperity, ACRS 2018, http://www.scopus.com/inward/record.url?eid=2-s2.0-85071890704&partnerID=MN8TOARS
- Bhaduri, E., Nag, D., Goswami, A.K. Evaluation of Service Improvement measures on Mass Transit modal share, Proceedings of the 12th World Congress of the Regional Science Association International (RSAI), Goa, India, May 2018, ISBN 978-989-54216-0-2
- Kavta, K., Goswami, A.K. Traffic congestion mitigation: A research review of supply and demand approaches. Paper presented at 97th Annual meeting of Transportation Research Board (TRB), Washington D.C, USA, January 2018, https://trid.trb.org/view/1496210
- Kavta, K., Goswami A.K Performance-Based Asset Management: Forecasting Roadway Infrastructure Preservation Needs. Paper presented at World Road Meeting, International Road Federation (IRF), New Delhi, India, November 2017
- Hussain, M.S., Nag, D., Goswami, A.K. A Methodology to Determine Urban Pedestrian Trip Generation of Commercial Land Use. Paper presented at World Road Meeting, International Road Federation (IRF), New Delhi, India, November 2017
- Nag D., Goswami, A.K. Identification of Measures of Effectiveness (MOEs) for developing Pedestrian Level of Service (PLOS)—A Theoretical Approach using Expert's Opinion. Paper presented at 4th International Conference on Spatial Planning and Sustainable Development, Seoul National University, Seoul, South Korea, August 2017
- Bansal, S., Goswami, A.K., Sen, J. Globally Integrated Urban Network Management based on Airport-oriented Development (AOD) - evaluation of concept and strategic model: A case of Varanasi, India. Paper presented at Annual Conference of Europe Urban Research Association (EURA), University of Warsaw, Poland, June 2017
- Roy, A., Nag, D., Goswami, A.K. Impact of Electronic Toll Collection on Reducing Delays at Toll Plaza. Paper presented at 12th Conference on Transportation Planning and Implementation Methodologies for Developing Countries, IIT Bombay, Mumbai, India, December 2016
- Soswami, A.K., Miller, J.S., Hoel, L.A. **Measuring the Quality of Landside Access to Airports**, 89th Annual Transportation Research Board Conference, Washington D.C., January 2010
- Goswami, A.K., Miller, J.S., Hoel, L.A. Measuring Pre-Flight Travel Time in the Air Journey, 29th International Air Transport Conference, Irving, TX, August 2007, https://doi.org/10.1061/40938(262)7
- Miller, J.S., Goswami, A.K. Achieving Interagency Cooperation Through Technical Assistance: Option for Coordinating Transportation and Land Use Planning, 84th Transportation Research Board Annual Meeting, Washington D.C., January 2005
- Soswami, A.K., Miller, J.S., Hoel, L.A. Assessing the Feasibility of Passenger Offsite Airport Terminals, 9th Air Transport Research Society (ATRS), Rio de Janeiro, Brazil, July 2005

TECHNICAL REPORTS/BOOK CHAPTERS

- Hussain, M.S., Nimesh, V., Goswami, A.K. (2022). Safety around transit systems, last-mile safety, and aid from advancing system technologies, Advances in Cognitive Intelligent Systems for Sustainable Engineering: Concepts, architectures, and practical applications, Institution of Engineering and Technology (IET) Book Series (Scopus Indexed)
- Nag, D., Manoj BS, A. K. Goswami, and S. Bharule (2020). **Framework for Public Transport Integration at Railway Stations and its Implications for Quality of Life**. Handbook on High-Speed Rail and Quality of Life, ADBI Working Paper 1054. Tokyo: Asian Development Bank Institute. Available: https://www.adb.org/publications/framework-public-transport-integration-railway-stations-implications-quality; https://dx.doi.org/10.2139/ssrn.3551888

- Manoj, B.S., Nag, D., Goswami, A.K. Assessment of Traffic Impacts for Proposed Multi-level Car Park (MLCP) at Alipore, Kolkata, Mackintosh Burn Limited, Govt. of West Bengal Enterprise, October 2019
- Kavta, K., Goswami, A.K. Study of Transit Oriented Development with Reference to Intermodal Transportation Hub: The Case of Kolkata, Nikken-Sekkei Research Institute (NSRI), Tokyo, Japan, April 2018
- Nag, D., Goswami, A.K. Accidents & Emergencies. In B. Maitra (Ed.), Training Manual for Drivers, Govt. of West Bengal (pp.159-173). Kolkata, West Bengal: Cygnus Advertising (India) Pvt. Ltd. ISBN: 978-93-80813-53-0, 2017
- Kavta, K., Goswami, A.K. Road Markings. In B. Maitra (Ed.), Training Manual for Drivers, Govt. of West Bengal (pp.47-67). Kolkata, West Bengal: Cygnus Advertising (India) Pvt. Ltd. ISBN: 978-93-80813-53-0, 2017
- Dye Management Group, Inc. Development of Service Levels for the Interstate Highway System, National Cooperative Highway Research Program (NCHRP) Report 677, National Academy of Sciences, Washington DC, 2010 (DOI: 10.17226/22909)
- Goswami, A.K., Miller, J.S., Hoel, L.A. Airport Offsite Passenger Service Facilities: Volume I: Definition, Background, and Opportunities, Virginia Transportation Research Council, Report No. 08-R15, May 2008
- Goswami, A.K., Miller, J.S., and Hoel, L.A. Airport Offsite Passenger Service Facilities: An Option for Improving Landside Access: Volume II: A Methodology to Determine Demand for Airport Offsite Passenger Service Facilities, Virginia Transportation Research Council, Charlottesville, report No. 09-R6, February 2009
- Miller, J.S., Goswami, A.K. Providing Technical Assistance in an Environment of Uncertainty: A Case Study of Coordinating Transportation and Land Use, Virginia Transportation Research Council, Report No. 05-R20, Feb 2005
- ➤ Ulmer, J.M., Goswami, A.K., Miller, J.S., Hoel, L.A. **Residential Trip Generation: Ground Counts Versus Surveys,** Virginia Transportation Research Council, Report No. 03-R18, June 2003

INVITED/GUEST SPEAKER

- Capacity Building and Training Program, Metro and Future Urban Rail Transport, Institute of Urban Transport (IUT), India, August 2022
- > Technical session, Symposium on Urban Development of NE states -Smart City Revolutions and Innovations in Urban Transport, North East Festival, Azadi ka Amrut Mahotsav, Gangtok, Sikkim, April 2022
- Symposium, Transport and COVID-19 in Low- and Middle-Income Countries, Makerere University, Kampala, Uganda, February 2022 (online)
- Session Moderator, International Conference on Sustainable Urban Mobility (SUMo 2020), Institute of Town Planners (ITPI), West Bengal Chapter, October 2021
- QIP short-term course, Transition towards Electric vehicles and their Charging Ecosystem in India (TEVCEI-2021), IIT (BHU) Varanasi, January 2021
- > AICTE short-term training program, Emerging technologies in transportation engineering for sustainable development, Vignana Bharathi Institute of Technology (Autonomous), Hyderabad, November 2020
- > Distinguished Alumni Speaker at NIT Jamshedpur, Industry-Alumni Relations Cell, NIT Jamshedpur, July 2020
- ➤ **UK-India Education and Research Initiative (UKIERI)**, Scheme for Promotion of Academic and Research Collaboration (SPARC) webinar, June 2020
- ▶ BITS Pilani Hyderabad Campus, **SPARC Workshop**, March 2020
- NIT Sikkim, Ravangla Campus, Induction Program for 1st Year B.Tech. students, July 2019
- > Public Works Department (PWD), Safety and Hot Spot Identification along Highways, IIT Kharagpur, 2018
- Asian Institute of Public Policy and Development, The role of Trans-Municipal Governance in Transit Oriented Development (TOD): Integrated Policy towards Inclusive Economic Growth in India, November 2016

- UK-India Joint Network on Sustainable Cities and Urbanization in India, Urban Observatories for Enhancing the Quality of Urban Life in India, September 2016
- Institute of Public Health Engineers, India, Improving Pedestrian Transport for a Smart and Health Urban Future, July 2016
- ➤ University of Virginia, Sustainable Transportation A Global Understanding, July 2016
- University of Kyoto, University of Tokyo and Tokyo Metropolitan University, Joint Collaborative Initiatives under Varanasi-Kyoto Agreement, March 2016

AWARDS/MEMBERSHIPS

- Received Faculty Excellence Award (Assistant Professor) 2022, IIT Kharagpur
- Received Springer Best Paper Presentation Award for student paper titled Predicting Trends in Roadway Crashes and Forecasting Crash Frequency in Developing Countries: A Case of Mumbai-Pune Expressway, International Conference on Transportation Infrastructure Projects Conception to Execution (TIPCE), IIT Roorkee, January 2019
- > Received best poster award for student paper titled **Estimating Environmental Impacts of Electronic Toll Collection**, 4th Conference of Transport Research Group (CTRG), IIT Bombay, December 2017
- Presented by the Jack H. Dillard Award for the paper titled Option for Coordinating Transportation and Land Use Planning, by the Virginia Transportation Research Council, Charlottesville, Virginia, 2005
- **Executive Committee Board Member,** Transportation Research Group (TRG), India
- > Chair, Technical Committee of Transportation Research Group (TCT D01), Travel Behaviour and Transport Demand
- ➤ **Life Member**, Indian Road Congress (IRC)
- > Committee Member, Urban Roads &Streets (H-8), Indian Road Congress (IRC)
- > Associate, Institution of Engineers (India)
- ➤ Member, Eastern Asian Society for Transportation Studies (EASTS)
- Former Member, Transportation Research Board (TRB) Committee on Roadside Maintenance Operations (AHD50)

PROFESSIONAL ENGAGEMENTS

- Serving as Track Chair, 2nd International Conference on Transportation Infrastructure Projects Conception to Execution (TIPCE2022), IIT Roorkee, September 2022
- Served as Session Chair, 6th Conference of Transportation Research Group (CTRG) of India, NIT Tiruchirappalli, December 2021
- > Served as Technical Session Moderator, International Conference on Sustainable Urban Mobility (SUMo2020), Institute of Town Planners India (ITPI), West Bengal Chapter, October 2021
- Served as Technical Session Chair, 13th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2020), IIT Bombay, December 2020

JOURNAL PAPER EDITOR/REVIEWER

- > Special Issue Guest Editor, **Transportation in Developing Economies**, Journal of the Transportation Research Group (TRG) of India
- > Special Issue Guest Editor, Journal of Institute of Town Planners India
- Reviewer, Journal of Travel Behavior and Society
- > Reviewer, Journal of Transport and Land Use

- > Reviewer, **Transportation in Developing Economies**, Journal of the Transportation Research Group (TRG) of India
- > Reviewer, Journal of Air Transport Management
- > Reviewer, Journal of Airport Management
- Reviewer, Asian Transport Studies (ATS) Journal
- > Reviewer, Transportation Research Record, Journal of the Transportation Research Board