

1. Record Nr.	UNINA9910741150103321
Autore	Verma Ashish
Titolo	Urban Mobility Research in India : UMI Research Symposium 2022 // edited by Ashish Verma, M. L. Chotani
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-9934-47-8
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (465 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 361
Altri autori (Persone)	ChotaniM. L
Disciplina	338.40954
Soggetti	Transportation engineering Traffic engineering Vehicles Automotive engineering Transportation Technology and Traffic Engineering Vehicle Engineering Automotive Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Contents -- About the Editors -- Choice Modelling-Based Policy Evaluation for Gender-Inclusive Mobility -- 1 Introduction -- 2 Data, Variables and Study Area -- 3 Research Methodology -- 3.1 Mathematical Formulation and Estimated Parameters of the Model -- 4 Policy Description -- 4.1 Policy Instruments -- 4.2 Policy Bundles -- 5 Results and Policy Evaluation -- 5.1 Gender-Based Evaluation of Group 1 Policy Bundles -- 5.2 Gender-Based Evaluation of Group 2 Policy Bundles -- 5.3 Modal Split Evaluation Across Income-Gender Groups -- 6 Conclusion and Policy Implications -- References -- Smart Data for Performance Monitoring of City-Bus Services-A Case Study of Ahmedabad -- 1 Introduction -- 2 Bus Operations Data Sources -- 3 Performance Assessment of Bus Services -- 3.1 Performance Assessment from Users' Perspective -- 4 Direction of the Research -- 5 Aim of the Research -- 6 Approach -- 7 Profile of the City-Ahmedabad -- 8 Detailed Methodology -- 9 Results and Discussion -- 10 Conclusion of the Study -- 11 Recommendations -- 12 Way Forward -- References -- A Critical Review of India's Urban Governance Reforms

and Its Impact on Transport Sector: Case Studies of Bangalore and Jaipur -- 1 Introduction -- 2 Review of Major National Urban Policy Reforms in India -- 3 Methodology -- 4 Case City of Bangalore -- 4.1 Urban Governance Reforms in Bangalore -- 4.2 Urban Transport Stakeholder Mapping -- 5 Case City of Jaipur -- 5.1 Urban Governance Reforms in Jaipur -- 5.2 Urban Transport Stakeholder Mapping -- 6 Conclusion and Policy Implication -- References -- Assessing the Disparity in Connectivity of Multiple Unit Trains in the National Capital Region -- 1 Introduction -- 2 Literature Review -- 3 Description of Study Area -- 4 Methodology -- 5 Results and Discussion -- 6 Conclusions and Recommendations -- References.

Review of Transportation Relevant UN SDG Targets and their Association with Sustainable Transport Indicator s -- 1 Introduction -- 2 Overview of Relevance of UN SDG Targets with Transportation -- 3 Literature Review of Sustainable Transport Indicators -- 4 Identifying Suitable Sustainable Transport Indicators (STIs) -- 5 Review of Indian Transport Policy -- 6 Conclusion -- Appendix 1: Potential List of 201 Sustainable Transport Indicators (STIs) -- Appendix 2: Potential List of Suitable STIs for UN SDG Targets Directly Relevant to Transportation -- References -- Impact of Parking Pricing and Regulations on User Behavior -- 1 Introduction -- 2 Study Methodology -- 3 Literature Review -- 3.1 Theory of Planned Behavior -- 3.2 Impact of Parking Regulations on User Behavior -- 3.3 Analytical Method -- 3.4 Summary -- 4 Data Collection -- 4.1 Observation -- 5 Survey Area -- 5.1 Basic Observations from the Site -- 5.2 Sample Size Determination -- 6 Sample Description -- 7 Data Analysis -- 7.1 Testing the Correlation Between the Variables for On-Street Parking -- 7.2 Testing the Correlation Between the Variables for Off-Street Parking -- 7.3 Findings -- 8 Conclusion -- References -- Comprehensive Framework for Adoption of Electric Vehicles: A Case Study of Jaipur City -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Case Study Profile and Data Analysis -- 4.1 Stakeholder Analysis -- 4.2 Prioritising Issues in EV Adoption Using AHP -- 4.3 Analysing EV Adoption Intention Using SEM -- 5 Proposed Planning and Policy Framework for Efficient EV Adoption in Jaipur -- References -- Assessing Electric Vehicle (EV) Readiness of an Indian City: A Case Study of Lucknow, Uttar Pradesh -- 1 Introduction -- 1.1 Indian EV Ecosystem -- 2 Research Objectives -- 3 Background -- 3.1 Existing Policy Ecosystem for Electric Vehicles in India. 3.2 Assessment of EV Policies Around the World -- 3.3 Uttar Pradesh EV Manufacturing and Mobility Policy -- 4 Methodology -- 5 Results -- 5.1 To Project the EV Growth in Lucknow by 2030 and Estimate Infrastructure Requirements -- 5.2 To Assess the Current EV Readiness of Lucknow and Understand the Challenges in EV Adoption -- 6 Conclusion -- 7 Limitations of the Study -- References -- An Empirical Investigation into Electric Vehicle Adoption in Urban Freight-A Case Study of Delhi -- 1 Introduction -- 2 Potential of Electric Vehicles in Urban Freight -- 3 Methodology and Data Collection -- 4 Results and Discussion -- 4.1 Weights of Categories of Barrier -- 4.2 Weightage Within Barrier Categories -- 4.3 Global Weights of Barriers -- 4.4 Ranking of Potential Solutions and Strategies -- 4.5 Total Cost of Ownership -- 5 Conclusion and Policy Implication -- References -- Travel Behaviour of Women in Delhi-Pre and During-Covid Scenario -- 1 Introduction -- 2 Overview of Mobility Patterns of Women-Global Experiences -- 3 Method and Materials -- 4 Comparative Trends of Mobility Levels of Working Women During Pre-COVID-19 and During COVID-19 -- 5 Discussion and Conclusions -- References -- Investigating the Effects of Individual and City Tier Characteristics

on Motorized Two-Wheeler Usage Behaviour: A Multilevel Modelling Approach -- 1 Introduction -- 2 Research Background -- 3 Methodological Framework -- 3.1 Data Description -- 3.2 Demarcating City Tiers Using K-Means Clustering -- 3.3 Multilevel Modelling Framework -- 4 Results and Discussion -- 5 Research Implication and Application -- 6 Conclusions -- References -- Planning for Equitable Accessibility to Public Facilities: Case Study of Faridabad, India -- 1 Introduction -- 2 Need Analysis -- 3 Economically Weaker Section Group -- 3.1 Working Women -- 3.2 Old Age People -- 4 Methodology -- 5 Data Analysis.

6 Street Matrix Analysis -- 6.1 Sub-Arterial Roads -- 6.2 Collector Roads -- 6.3 Local Streets -- 6.4 Cumulative Assessment of all Streets -- 6.5 Calculating Shortest Route -- 6.6 Metro Station -- 6.7 Railway Station -- 7 Linear Regression Method -- 7.1 Issues with the Shortest Route to the Railway Station -- 7.2 Accessibility Issues for Working Women -- 7.3 Accessibility Issues for Old Age People -- 8 Results -- 8.1 Prototype Model for ArcGIS (Using Model Builder) -- 9 Conclusion -- References -- Women Safety in Public Transport-A Case of Ahmedabad -- 1 Introduction -- 2 Literature Study -- 3 Methodology -- 4 Data Analysis -- 4.1 Behavioral Analysis -- 4.2 Women's Perception of Safety -- 4.3 Factors Influencing Women's Safety -- 5 Gap Analysis -- 6 Conclusion -- References -- Assessment of Utilization of the Foot Over Bridges in Delhi -- 1 Introduction -- 1.1 Background -- 1.2 Pedestrian Crossing Infrastructure-FOBs -- 1.3 Study Area: Delhi -- 1.4 Aim of the Study -- 2 Literature Review -- 2.1 Pedestrian Public Spaces -- 2.2 Measuring Walkability -- 2.3 Gender Perspective -- 2.4 Foot Over Bridges -- 3 Data and Methodology -- 3.1 Azadpur Chowk FOB -- 3.2 IIT Gate FOB -- 3.3 ITO FOB -- 4 Observations -- 4.1 Comparison and Scoring of the Three Selected FOBs by the Authors -- 4.2 Utilization of FOBs -- 4.3 Characteristics of Users and Non-users of FOBs -- 4.4 Perspective of Pedestrians Based on Gender -- 5 Alternate Pedestrian Crossing -- 5.1 Pedestrian Crossings -- 6 Conclusions -- Annexure -- References -- Comprehensive Analysis of Post-COVID-19 Changes in Behavior and Perception of Public Transit Users in the Urban Region of a Medium-Sized City of India- Noida/Greater Noida Region (Delhi NCR) -- 1 Introduction -- 2 Study Area -- 3 Methodology -- 3.1 Data Collection -- 3.2 Hypothesis Testing -- 4 Data Analysis -- 4.1 McNemar Test Interpretation. -- 4.2 Chi-Square Test Interpretation -- 4.3 Study Implications/Inferences -- 5 Promotive Measures for Public Transport -- 6 Summary and Conclusions -- References -- Analysing Factors Influencing Usage of Metro Services in Bengaluru, India -- 1 Introduction -- 2 Literature Review -- 2.1 Service Availability (SA) -- 2.2 Passenger Ease (PE) -- 2.3 Passenger Information (PI) -- 2.4 Amenities (AMT) -- 2.5 Safety and Security -- 2.6 Environmental Impact -- 3 Methodological Approach -- 3.1 Factor Analysis (FA) -- 3.2 Regression Analysis -- 4 Study Context and Survey Database -- 4.1 Study Context -- 4.2 Survey Design and Data Collection -- 4.3 Descriptive Analysis -- 5 Factor Analysis and Model Development -- 5.1 Test of Suitability of Factor Analysis (FA) -- 5.2 Determination of Factors -- 5.3 Regression Model Development -- 6 Discussion and Conclusion -- 7 Limitations and Scope of Future Research -- References -- Investigating the Attributes Influencing Pedestrian Behaviour of Commuters for Enhancing Accessibility of Metro Stations: A Case Study of Delhi, India -- 1 Introduction -- 1.1 Need of the Study -- 1.2 Objectives -- 1.3 Scope of the Study -- 2 Literature Review -- 3 Methodology -- 4 Study Area -- 4.1 Station Area Profile -- 4.2 Issues Related

to Accessibility of Delhi Metro Stations -- 5 Data Collection -- 6 Data Analysis -- 6.1 Demographic Data of the Respondents -- 6.2 Travel Behaviour Data of the Respondents -- 6.3 Accessibility Data of the Respondents -- 6.4 Analysis of Importance Attributes -- 6.5 Analysis of Satisfaction Attributes -- 6.6 Means for Importance and Satisfaction -- 6.7 Importance-Satisfaction Analysis -- 6.8 Locating Each Attribute of Walking in the IPA Matrix -- 6.9 Locating Main Attributes of Walking in IPA Matrix -- 7 Conclusion -- References -- Delay Analysis of Motorized Three-Wheelers at Roundabouts in Urban Indian Context.
1 Introduction.

Sommario/riassunto

This book presents selected papers from 13th Research Symposium of 15th Urban Mobility India Conference & Expo 2022. It focuses on sustainable Atmanirbhar urban mobility with an interdisciplinary approach spanning the fields of economics, planning, management, and engineering. It covers a wide variety of topics like smart city and smart mobility, sustainable transportation planning and policy, public transport and non-motorized transport (NMT), road safety for vulnerable road users (VRUs), and urban transport infrastructure design for all, sustainable mobility and land use (LU), sustainable urban freight, electric urban mobility, and urban transport governance. This book is of interest to the graduates, postgraduates, and Ph.D. students to advance their research in the field of transportation systems engineering. This book is also helpful to urban and transport planners and managers, traffic analysts, consultants, transportation advisors, and experts in planning, developing, operating, managing, and executing the transportation projects. .
