

INDEX

Note: Page numbers followed by “*n*” indicate notes.

- AcPro software, 147, 155
 - smart TDM using, 150–151
 - usefulness, 151–153
- Active tourism, 163
- Activity
 - activity-based models, 143
 - span, 137ⁿ⁴
- Aging of population, 3
- “Albergo Diffuso” project, 172
- Alternative transport systems in
 - natural parks, 181
- API service, 86
- Area development involving tourism (ADIT), 142–143, 155–156
- Area marketing and management
 - approach (AMMA), 142, 144
 - principles and objectives of sustainable development in tourism destinations, 145
 - smart TDM measures based on, 145–147
- Area marketing and management approach (AMMA), 7
- Asian Development Bank (ADB), 14
- Automatic vehicle location (AVL), 103
- Automatic vehicle monitoring (AVM), 103
- Azores islands, 100
- Battery-powered electric boats, 62
- Battery-powered tour boats, 67
 - analysis and preliminary findings, 67–70
 - assessing tourist willingness to pay premium for environmentally benign cruises, 71–73
 - methodology and characteristics of sample, 67
 - stratification of tourist interests and tourist demand, 70–71
 - study objective, 67
 - survey of tourist customer motivations, preferences, and experiences regarding, 67–73
- Behavioral analysis of pedestrian mobility of tourists and pilgrims in Rome, 47–49
- Behavioral models, 46
 - estimation, 49–51
- Behavioral theory, 83
- Berlin-based sightseeing boat operators, 66
- Berlin’s boat piers, 66
- Berlin’s Public Transport Company, 65
- Berlin’s tourism sector, 63–64
- Bicycle Innovation Lab (BIL), 14
- Bicycle Network (BN), 14
- Bicycle-tourism choices, 160
- Bike tourism, 166 (*see also* Cycle tourism)
 - supply in Insubria region, 171–174
- Bike-friendly environment, 172
- Bike/PTD, 38–39
- Binomial logit model, 189
- Border tourism space, 16
- Buffering, 54
- Čadca–Skalité–Zwardoń railway line, 21–22
- Cars, 183
- Central and Eastern Europe countries (CEE countries), 17
- Choice experiment, 189
- “Ciclovía dei Laghi”, 173

- Čirč–Leluchów border crossings, 19
- CIVITAS DESTINATIONS
project, 85
- Cluster analysis, 70
- Clustering algorithms, 54
- Coastal leisure shipping activity, 102
- Cohesion policy, 17
- Collaboration, 201
- Commuter rail service, 34
- Como, 168, 173
tourism development in, 169–170
- Consumer surplus, 191
- Contingent valuation, 191
- Conventional zonal travel cost model,
191–192
- Costa Daurada, 121, 135–136
- Count data models, 193
- Crete reliance on tourism, 101
- Cross-border
bus connections, 23
railways and railway connections,
21–22
transport changes on Polish–Slovak
borderland, 16–23
- Cross-border cooperation (CBC),
17–18
- Cuba, 101
- Cultural richness, 173
- Cycle mobility, 163
- Cycle tourism, 160–161 (*see also*
Sustainable tourism (ST))
data on, 164–166
demand for, 166–167
features, 162–163
importance of tourism and
sustainable tourism,
161–162
Insubria region, 168
policy implications, 174–175
tourism development in Como,
169–170
tourism development in Varese,
170–171
- Cycling, 162, 174
holidays, 163
networks, 175
- Data availability, 201
- Data Flow Diagram (DFD), 85–86
- Date consistency, 85
- Decision support system (DSS),
56, 201
- Decision-makers, 47, 49, 98
- Demand
function, 192
management, 142
“Demand emergence” type, 142
“Demand forecasting/demand
follow-up” type, 142
‘Destinations’ competitiveness,
enhancement of, 119
- Diesel-powered ships, 62
- Digital elevation model (DEM), 52
- Discrete choice models (DCM),
46–47, 102, 181
- Discrete choice utility-maximizing
models, 143
- E-bikes, 167
- Eco-innovation in tourism, 62
- Ecological footprint indicator, 101
- Economic dimension, 162
- Electric boats, 62
- Electric mobility, 74
- Electric scooters, 37
- Electric sightseeing tour boat
operators in Berlin, survey
of initial experiences of,
65–66
- Environmental dimension, 162
- Environmental sustainability
background, objectives, and
structure of case study,
60–63
of city sightseeing cruises, 60
European tourist destinations
cities, 61
of mobility system of area,
118–119
sightseeing cruise business in Berlin
and related environmental
sustainability concerns,
63–64

- survey of initial experiences of electric sightseeing tour boat operators in Berlin, 65–66
 - survey of tourist customer motivations, preferences, and experiences regarding battery-powered tour boats, 67–73
- European policy, Slovak–Polish borderland–tourism and transport development in light of, 16–18
- European Regional Development Fund (ERDF), 17
- European Territorial Cooperation (ETC), 17
- European Union (EU), 17, 64, 80 funds, 20
- Experimental design theory, 47
- Facilitators, 200
- Focus group to test MyMaltaPlan App, 90–92
- Foreign tourists, 28
- Freight transport, 46
- Gdansk, 33–36
- Gdynia, 33–36
- General data protection regulation (GDPR), 86
- Geographical information system (GIS), 5, 46–47, 51–55, 85
- German Reunification (1989), 63
- Google Maps*, 82
- Google Maps, 84, 86, 91
- GoTo*, 82
- Gozo Ferry Services*, 89
- GPS tracking devices, 3
- Green island, 103
- Green Paper on Territorial Cohesion (2008), 17
- Green transport mode, 163
- Greenhouse gas emissions (GHG emissions), 81
- Havana, future of transport in, 101
- Havel River, 64
- Higashi-Mei-Han expressway, 151
- High-level service, 166–167
- Holiday cycling, 163, 165
- Hybrid-powered ships, 65
- Identity, 83
- Information, 201
- Insubria region, 7, 160
 - cycle tourism in, 168
 - supply of bike tourism in, 171–174
- Intelligent transport systems (ITS), 119
- Inter-urban land-based transport planning, 102
- INTERREG project, 186
- Interregional cooperation, 17
- Interurban mobility, 133
- Ischia island, 99
 - data and methodology, 105–106
 - descriptive statistics, 106–110
 - policy implications, 111–112
 - results of survey, 106–111
 - sample composition, 106
 - survey, 103–105
 - sustainable tourism mobility in islands, 99–103
 - SWOT analysis, 110–111
- Island(s), 99
 - tourism, 98
- Kameyama IC, 151
- Košice–Plaveč–Muszyna railway line, 21–22
- Krakow, 33
- Kruskal–Wallis test, 39
- Lake Maggiore Bike Hotels, 172
- Landwehrkanal, 63
- Lanzarote, 101
- Likert scales, 32
- Lisbon Treaty and Europe 2020, 17
- Local public transport (LPT), 104–105

- Malta, 80–82
Malta Public Transport website, 82
 Malta Tourism Authority (MTA), 81
 Maltese Islands, 80
 Mann–Whitney *U*-test, 39
 Mauritius transport policy, 101–102
 Measures, 142
 Medzilaborce–Łupków track, 22
Meep, 82
 Michal’any–Medzilaborce–Łupków railway line, 21–22
 Microeconomic theory of consumer behavior, 181, 188
 Mitigation of local urban air pollution, 60
 Mníšek nad Popradom–Łomnica–Zdrój border crossings, 19
 Mobile phone(s), 3
 apps, 155, 202
 Mobility Agency of Rome (RSM), 52
 Mobility as a service (MaaS), 119
 Mobility patterns, 2–3, 5, 99, 101
 Mobility-as-a-Service (MaaS), 82
 Mobility-Land Co., Ltd., 150
 Modal choice, 3–4, 6
 Motorized vehicles, 160
 MS Schwielowsee, 65
 Multinomial logit models (MNL models), 49–50, 54
 MyMaltaPlan app, 6, 85–87
 focus group to test, 90–92
 National parks, 20, 180
 “Natural-rural” landscape, 102
 Nature Reserves, 20
 Nearest-Neighbor Interpolation method, 54
Nextbike Malta, 82
 Open Street Map (OSM), 52
 Open-data sources, 51–52
 Ordered logit models, 186
 Ordinary Kriging algorithm, 54
 Ordinary least squares (OLS), 193
 Overtourism, 30, 144
 Palota–Radoszyce Oścjadnica–Vreščovka–Bór border crossings, 19
 Pedestrian crossings, 48
 PHARE CBC Programme, 18–19
 Plaveč–Muszyna track, 22
 Points of interest (POIs), 52
 Poland and Hungary: Assistance for Restructuring their Economies (PHARE), 24n1
 Polish–Slovak borderland, 12–13
 changes in cross-border transport on, 16–23
 changes of cross-border public transport between, 21
 cross-border bus connections, 23
 cross-border railways and railway connections, 21–22
 sustainable tourism, 13–14
 sustainable transport, 14–15
 transport and tourism, 16
 transport infrastructure, 18–21
 Predictability of mobility, 136
 Private car development, 13
 Problem-oriented approaches, 142
 Proximity algorithms, 54
 Public bicycle-sharing system, 201
 preferences with regard to, 186–187
 Public transport (PT), 2–4, 28, 31, 38, 84, 102, 119
 demand, 120–124
 guaranteeing quality and comfort of public transport services for resident population, 119–120
 Pull-and-push actions, 118
 Railway transport, 200
 Random utility maximization theory, 47
 Rating system, 84
 Recreational value of Teide National Park, 190–193
 Residents behavior, 98–99
 Reus, 122, 126
 Revealed/stated preferences, 181

- Reverse traffic pyramid, 14–15
- Road infrastructure, 19
- Robinson Crusoe factor, 100
- Rome, behavioral analysis of
 - pedestrian mobility of tourists and pilgrims in, 47–49
- Scheduled and charter boat tourism, 73
- Seasonal intra-destination mobility, 202
- Seasonal tourist destinations
 - available sources of data, 124–134
 - enhancement of destinations
 - competitiveness, 119
 - environmental sustainability of mobility system of area, 118–119
 - guaranteeing quality and comfort of public transport services for resident population, 119–120
 - tourist seasonality and public transport demand, 120–124
- Seasonality, 120, 123, 135, 137
- “Seminarschiff Fluxservice GmbH”, 65
- Shuttle Radar Topography Mission (SRTM), 52
- Shuttle-bus system, preferences with regard to, 187–190
- Sightseeing, 60
 - cruise business in Berlin and related environmental sustainability concerns, 63–64
- Slow tourism (ST), 100
- Small Islands Developing States (SIDS), 99
- Smart Environments, 46
- Smart TDM measures
 - based on AMMA, 145–147
 - in Suzuka F1, 147–153
 - validity of repeated applications, 153–154
- Smart travel cards
 - actions implemented in Camp De Tarragona using, 128–130
 - big data sets deriving from, 125–128
- Smartphone
 - app, 84
 - technology, 84–85
- Social dimension, 162
- “Solar Circle Line” shipping company, 65
- “SolarWaterWorld”, 65, 67
- Solidarity trade-union movement, 33
- Sopot, 33–36
- Sport tourism, 163
- Spree River, 63–64
- State border, 18
- State of roads, 102
- Stated preference (SP), 46
 - behavioral analysis of pedestrian mobility of tourists and pilgrims in Rome, 47–49
 - behavioral model estimation and tourist satisfaction, 49–51
 - GIS analysis, 51–55
 - stated preference GIS-based methodology, 46
- “Stern und Kreis” Shipping Company, 65
- STRAMA in Zakopane, 23
- StreetsAdvisor, 47, 56
- Strengths, weaknesses opportunities, and threats analysis (SWOT analysis), 106, 110–111, 200
- “SunCat 120” ship, 65
- “SunCat46” boats, 65, 67–69, 72
- “SunCat58” boats, 65
- Sustainability, 4, 14, 161–162 (*see also* Environmental sustainability)
 - principles, 13
 - in tourism, 144
- Sustainable development, 144
- Sustainable mobility, 3–4, 28, 85, 101

- Sustainable tourism (ST), 13–14, 106, 144, 201
 importance of, 161–162
 literature review, 82–87
 methodology, 87–88
 mobility in islands, 99–103
 mobility in Malta, 80
 results, 88–92
 tourist mobility in, 29–31
- Sustainable transport(ation), 14–15, 28, 199
 system, 14
 in tourism, 62
- SUZUKA F1, 146–147, 153
 image to collecting and providing information on, 150
 smart TDM measures in, 147–153
- Suzuka IC, 151
- Tallinja* “Explore” card, 82
Tallinja app, 82, 89
Tallinja Bike, 82
- Tarragona, 121–122, 125–126
- Technological eco-innovations, 62
- Teide National Park (TNP), 181
 data collection, 183–186
 preferences with regard to public bicycle-sharing system, 186–187
 preferences with regard to shuttle-bus system, 187–190
 recreational value, 190–193
 transport problems in, 182–183
- Territorial information system (TIS), 51
- Theory of interpersonal behavior, 83
 Theory of planned behavior, 83
 Theory of reasoned action, 83
 Theory of repeated behavior, 83
- Tour-based (trip chaining) models, 143
- Tourism, 12–13, 29, 60, 81 (*see also* Sustainable tourism (ST))
 destination cities, 60
 development, 160
 flows, 98
 importance of, 161–162
 tourism-related transport studies in Japan, 142
- Tourist sustainable mobility
 at destination (*see also* Environmental sustainability)
 case study, 32–37
 research method, 32
 survey results, 37–41
 tourist mobility in view of sustainable tourism, 29–31
 tourist transport choice determinants at destination, 31–32
- Tourist travel, 84–85
 at destination, 83–84
- Tourist walking experience, 47–49
- Tourist walking satisfaction indicator (TWSI), 6, 47, 50
- Tourist(s)
 app, 56
 behavior, 99, 111
 in bicycle, 163
 with bicycle, 163
 destinations, 2, 119, 160, 199
 mobility in view of sustainable tourism, 29–31
 operator tool, 86
 satisfaction, 46–47
 satisfaction, 49–51
 seasonality, 120–124
 survey on transport choices and smartphone use, 88–89
 traditional sources of data on tourists’ public transport intra-destination trips, 124–125
 with university education, 40
- Traditional trip-based aggregate models, 143
- Transnational cooperation, 17
- Transport, 12
 activities, 98
 at destination, 2
 policies, 203
 problems in Teide National Park, 182–183

- studies in national parks, 181
- for tourism, 1–2, 14–15
- and tourism, 16
- transport–mutual relationships, 13–16
- Transport-oriented marketing and management (TM&M), 146
- Transportation demand management (TDM), 5, 142, 146
- Transportation system management (TSM), 142
- Travel
 - behavior, 82–83
 - behavioral models, 143
 - cost method, 191–192
 - mode choice model, 182, 191
- Trends in tourism demand, 201
- Tri-city, 28, 32–33, 36, 38, 41
- Trip planning, 85, 88
- TripAdvisor, 56, 84
- Triple bottom line, 14
- Trstená–Nowy Targ cross-border cyclist’s route, 21
- United Nation World Tourism Organization (UNWTO), 162
- Urban Mobility Plan of Salou, 133
- Valletta Ferry Services*, 82
- “Valletta” card, 82
- Varese, 168, 171
 - tourism development in Varese, 170–171
- Ventotene, 103
- Villa Carlotta, 173
- ‘Visitors’ mobility, 136
- Walking for tourism, 46
- Warsaw, 33
- Waterborne tourist cruises, 62
- Waterborne tourist excursions, 62
- Waterways for tourism, 60
- “Weiße Flotte Potsdam”, 65
- Westerplatte, 34
- Who, where, when, and what paradigm (4-W paradigm), 134–135
- Willingness to pay (WTP), 188, 190
- Willingness to walk (WTW), 50
- Yosemite, 180
- Zakopane–Liptovský Mikuláš bus, 23
- Zakopane–Poprad bus, 23