Index

A
administrative sources 2, 18, 19, 23
aggregate data 51, 53, 56, 66, 67
akaike information criteria (AIC) 282
algorithm 2, 24, 229, 233, 234, 241
analytical methods 84
annual population survey(APS) 117
application language 36, 37
archetypes 203
asylum statistics 117
avon total 60

B
baseline model 248
best estimate 94
binomial 261, 262, 271, 275, 276, 277
binomial regression 261, 271
birth cohort 4, 5, 13
code data 232
cohort studies 12, 13
CommuterView 81
commuting catchment 216
commuting data 2, 6, 7, 12, 18, 23, 29, 38, 41, 46
commuting dataset yielded 230
commuting footprint 219
concentric 243
contiguity variable 265, 268, 272
contracted migrants 275
correlation statistics 47
counterurbanisation 89, 109
cross-classifying 262
cross-sectional data 133, 140, 141, 147
cross-tabulated 178

c
database management system (DBMS) 36, 37, 39
data neutrality 216
data protection act (DPA) 53
datasets 133, 134, 135, 140, 141, 148
decennial census 115
decennial population 196, 197
demographic 134, 135, 136, 140, 142, 148, 265
denominator 264
department for children, schools and families (DCSF) 116
department for environment, food and rural affairs (DEFRA) 212
deprivation 175, 176, 191, 192, 193, 194
deprived quintile 193
design of the tables 214
destination-constrained model 274
destination population 265, 266, 268, 275
dichotomy 197
disaggregation 54, 56, 62
drivers and vehicle licensing agency (DVLA) 19
dummy variable 265, 268, 272, 274, 277

economically active 75
economically inactive 75
economic and social research council (ESRC) 148
economic migration 112
ED-level 257
EEA 113, 115, 116, 117
empirical analyses 197, 209
entropy maximising 261, 275
enumeration 243, 247
enumeration district (ED) 94, 140, 247
environmental load 213
ethnic dimension 175
ethnic migration 280, 284, 287, 292
ethnic net migration 176
ethnic proportion 287
Euclidean distance 249
european economic area (EEA) 113
european union (EU) 112
explanatory variables 261, 274, 277

f
family health service areas (FSHAs) 14
family practitioner committee areas (FPCAs) 14
flow data 229, 243, 244, 246, 257, 258
Flowmap 81, 87

g
general register office for scotland (GROS) 141, 148
geenetic algorithm 80
gentrification 202, 206, 208, 209
geo-computation 229
geodemographic 162

generically weighted regression (GWR) 79
generic centre 272
geo-referencing 58
government office region (GOR) 91, 93, 116, 140, 177, 283
government office region (GOR) 91, 93, 116, 140, 177, 283
gravity model 265, 266, 267, 268, 269, 270, 277, 278
gross migration production rate (gmr) 74
gross reproduction rate 74

h
health authority (HA) 97
heterogeneity 58
higher education statistics agency (HESA) 160
higher managerial and professional (HMP) 200, 202
high in-migration 254
high out-migration 254
homoscedasticity 270
hospital episode statistics (HES) 17
household SAR 11

i
individual anonymity 213
individual SAR 11
inflow 69, 71, 72, 73, 98, 100, 102, 254
inflow/outflow ratios 163
in-migration 7, 10, 12, 71, 72, 74, 75, 81, 97, 98, 102, 157, 161, 163, 165, 166, 168, 169, 175, 184, 185, 186, 194
in/out ratio 164, 201, 202, 203, 204, 205, 206, 209
interaction data 1, 2, 8, 9, 11, 12, 13, 17, 18, 19, 22, 23, 24, 25, 26, 30, 31, 32, 33, 34, 35, 36, 38, 39, 42, 46, 49, 50, 51, 52, 54, 55, 56, 58, 62, 63, 64, 66, 67, 68, 69, 70, 75, 79, 85, 86, 89, 90, 91, 93, 94, 96, 109, 110, 133, 147
interaction matrix 70, 85
inter-area 70, 71, 72, 74, 78
inter-censal migration 109
inter-district flows 159, 164
inter-district migration 275
inter-district movement 158
inter-LAD flows 244
Index

internal migration 97, 110, 119, 153, 157, 158, 164, 171, 175, 176, 192, 194, 195
internal migration data 74
international migration 111, 112, 113, 115, 116, 118, 119, 121, 124, 128, 129, 130
international passenger survey (IPS) 2, 20, 114, 115
interpolation 245, 246, 248, 259
interregional migration 280, 281, 282, 284, 285, 286, 287, 288, 290, 291, 292
inter-urban migration 274, 279
inter-ward 244, 247, 249, 250, 251, 258
inter-ward flow models 251
inter-ward level 244
inter-zonal flows 80
inter-zonal migrants 273
inter-zone 158
inter-zone migration 273
intra-area flow 44, 70, 71, 75
intra-area migration 74, 158
intra-district flows 159, 164
intra-district migration 158, 159
intra-regional migration 206
intra-ward 244, 247
intra-zonal migrants 273
intra-zone 158
item non-response 56

L

labour force survey (LFS) 2, 19, 116, 117, 122, 124
labour market 227, 228, 230, 231, 233, 239, 240
labour market structure 220
labour migrants 275
less in-migration 278
limiting long-term illness (LLTI) 137, 143, 144, 145
linear predictor 261, 264, 265
local authority district (LAD) 7, 20
local education authority (LEA) 16, 116
local government district (LGD) 16
logarithm 55, 264, 265, 268, 270, 271
logarithmically 261, 271
logit model 277
log-linear model 79, 81
log-linear statistical model 79
longitudinal data 133, 134, 142, 147
longitudinal study (LS) 12, 30, 133, 135, 140
longitudinal study(LS) 133, 134, 135, 140, 141, 147
long-term migrant 114, 127, 128
lower-level super output areas (LLSOAs) 232
lower professional and managerial (LMP) 200, 205
low out-migration 278

M

MapBasic 83
MapInfo 81, 83
marginal totals 71
MATPAC (the matrix analysis package) 33, 34, 35, 50
metadata 31, 35, 36, 38, 39, 48, 49
metadata framework 31, 35
meta_datasets 39
meta_geog 39
methodological 162, 201, 209, 214, 219, 243, 249, 251, 257, 258, 260
micro-data 53, 56, 57, 69, 70, 82, 85, 88, 133, 134, 136, 140, 145, 147, 150
migration data 7, 13, 18, 19, 22, 25, 34, 35, 36, 46, 51, 55, 62, 64
migration matrix 199, 200
migration patterns 153, 154, 156, 164, 173, 174, 278
migration propensities 155, 156, 159, 160, 172, 175, 176, 194
modifiable areal unit problem 273, 277
movement data 4
moving group 6
moving group reference person (MGRP) 6, 200
multiplicative component model 281, 282, 291
multivariate cross-tabulations 57
mutual independence model 282, 289

N
National Health Service Central Register (NHSCR) 66
national insurance number (NINo) 18, 24, 117, 118, 119, 120, 121, 122, 124, 125, 126, 127, 128, 129
National Online Manpower Information System (Nomis) 34, 35, 50
national travel survey (NTS) 218
net inflows 184
new migrant databank (NMD) 111, 112, 118, 119, 121, 130
non-truncated model 276
non-zero values 51
northern ireland longitudinal study (NILS) 141
northern ireland statistics and research agency (NISRA) 141, 148
null model 248, 264, 267, 275

O
office for national statistics (ONS) 133, 136, 148, 176, 212, 213, 227, 240, 263
offset 267, 270, 271
ordinary least squares (OLS) 262
origin-constrained model 274
origin-destination data 32
origin-destination flow 69, 70, 77, 242
origin-destination interaction 281, 284, 285
origin population 265, 270, 271, 275
outflow 69, 70, 71, 72, 73, 98, 109, 254
out-migration 7, 71, 72, 73, 74, 75, 81, 97, 98, 101, 102, 157, 161, 163, 164, 165, 166, 169, 183, 184, 185, 186, 194
output areas (OAs) 93
output table 53, 57
overdispersion 271, 275, 276, 277

P
pakistani and other south asia (POSA) 179, 180, 181, 182, 183, 184, 185, 186, 188, 191
patient register data system (PRDS) 97
pensionable age 156, 163, 164
personal census information 54
point-in-polygon 247
Poisson 261, 262, 263, 264, 265, 266, 267, 268, 270, 271, 273, 274, 275, 276, 277, 278, 279
poisson regression analysis 262
polycentric labour 230
population at risk (PAR) 46, 48, 71, 72, 165, 200, 203, 224
population concentration 175, 191
population data 34, 46
post-aggregation 57, 58, 63
post-labour force 155, 170
pre-aggregation 57, 63
pre-labour force 155, 170
primary suppression 58, 59
primary unit data (PUD) 14
primary urban areas (PUA) 198
principle of entropy 275
propensity 154, 155, 157, 158, 159, 160, 171
pro-rata 96
pupil census 116
pupil level annual school census (PLASC) 16, 17, 18, 24, 27

Q
quantitative revolution 229
quick selection 41

R
real data 271
record swapping 214, 215
regression models 262, 278
retirement peak 155
Index

S
samples of anonymised record (SARs) 11, 133, 134, 135, 136, 139, 140, 141, 143, 144, 145, 147, 148, 149, 150, 176
saturated 282
scottish longitudinal study (SLS) 140, 149
SDC 92
secondary suppression 59
sectoral pattern 278
sensitive data 53
SIRs 145, 146
small area microdata (SAM) 136, 140
small cell adjustment mechanism (SCAM) 9, 10, 57, 62, 63, 64, 65, 66, 67, 177, 179, 183, 193, 199, 200, 201, 209, 210, 263, 278
small cell adjustment method (SCAM) 9, 57, 63, 156, 177, 216, 232
SMS 198, 199, 200, 201, 203, 206, 209, 210
socio-demographic 243
socio-economic 102, 134, 142, 153, 154, 156, 162, 196, 197, 198, 199, 200, 201, 203, 204, 205, 206, 207, 208, 209, 210, 214, 220, 221, 245, 252
socio-economic data 229
spatial 33, 34, 35, 37, 42, 43, 44, 49, 69, 70, 71, 73, 78, 80, 81, 85, 86, 87, 88, 89, 91, 92, 93, 94, 96, 98, 100, 103, 104, 108, 109, 110
spatial interaction models 274, 278, 279
spatial pattern 188
special migration statistics (SMS) 8, 134, 156, 176, 177, 198, 283
special travel statistics (STS) 8, 62, 242
special workplace statistics (SWS) 8, 227
speculative 275
standardised illness ratios (SIRs) 145
standardised mortality ratios (SMRs) 145
Standard Region 60, 61
standard table (ST) 7, 245, 251
statistical disclosure control (SDC) 56, 92, 214
subarea module 33
sub-optimal 229
sub-regional economies 228
suppression 57, 58, 59, 60, 61, 62, 65, 214
systematic variation 267
T
total international migration (TIM) 116, 118, 119, 120, 121, 122, 124, 125, 126, 127, 128, 130
transition data 4, 14, 22
transpose 33
travel-to-work areas (TTWAs) 227
U
unconstrained model 274, 275
underdispersion 271, 278
unique pupil number (UPN) 16
unit non-response 56
unsaturated log-linear model 280, 288, 289
urban decentralisation 202
urban gentrification 202
V
vacancy rate 265
vector 39
visualisation 69, 70, 81, 85, 86
W
ward-level models 247, 250
web-based interface to census interaction data (WICID) 9, 22, 31, 32, 35, 36, 37, 38, 39, 40, 41, 45, 46, 47, 48, 49, 50, 225, 258, 260
web server 36, 37
workers registration scheme (WRS) 113, 117
work permit 113, 115, 117
WRS profile 121
Z
zinb (zero-inflated negative binomial) 277
zonal system 273
zonation 198, 204, 210
zonelist 33