Mobility history, life events, and choice behavior of disaster-affected individuals

2024 / Tohoku

Overview

This dataset records the annual mobility history, life events (such as marriage, childbirth, retirement, job change, and relocation), and choice behavior (including residential choices and target setting) of disaster-affected individuals. It includes changes in both the individual's and spouse's status and location.

License

Use is permitted only for the 2025 Summer Course on Behavior Modeling in Transportation Networks.

Data Column Specification

Column Name	Data Type	Description
no	Int64	Individual number (identifier for each disaster-affected person)
gender	Int64	Gender (1 = Male, 2 = Female)
year	Int64	Observation year
s_prefecture	Int64	Code of origin prefecture
s_municipality	String	Name of origin municipality
t_prefecture	Int64	Code of destination prefecture
t_municipality	String	Name of destination municipality
t_house_type	Int64	Code of destination housing type
move_mark	Int64	Move indicator (0 = No, 1 = Yes)
marital_status	Int64	Marital status (0 = Single, 1 = Married, etc.)
ev_married	Int64	Marriage event indicator (0 = No, 1 = Yes)

Column Name	Data Type	Description
ev_divorced	Int64	Divorce event indicator (0 = No, 1 = Yes)
children_count	Int64	Number of children
ev_birth	Int64	Birth event indicator (0 = No, 1 = Yes)
ev_independent	Int64	Child independence event indicator (0 = No, 1 = Yes)
start_status	Int64	Employment status code at origin
end_status	Int64	Employment status code at destination
start_location	Int64	Residential location code at origin
end_location	Int64	Residential location code at destination
ev_retire	Int64	Retirement event indicator (0 = No, 1 = Yes)
ev_change_job	Int64	Job change event indicator (0 = No, 1 = Yes)
ev_change_loc	Int64	Workplace location change event indicator (0 = No, 1 = Yes)
sp_start_status	Int64	Spouse's employment status code at origin
sp_end_status	Int64	Spouse's employment status code at destination
sp_start_location	Int64	Spouse's residential location code at origin
sp_end_location	Int64	Spouse's residential location code at destination
sp_ev_retire	Int64	Spouse's retirement event indicator (0 = No, 1 = Yes)
sp_ev_change_job	Int64	Spouse's job change event indicator (0 = No, 1 = Yes)
sp_ev_change_loc	Int64	Spouse's workplace location change event indicator (0 = No, 1 = Yes)
disaster	Int64	Disaster experience indicator (0 = No, 1 = Yes)
target	Int64	Identifier for target residential location or migration destination
residence	Int64	Current residence code
choice	Int64	Code of the actual chosen behavior or destination

Column Name	Data Type	Description
id	Int64	Unique identifier for the individual

Hash Value

c7938d180371f5f315c15c3c786abe11b313d4ebbb22cf9abc16856522669b71

Last Updated : 2025-09-02 14:44:08