

% Hal Caswell and Nora Sánchez Gassen(2015): "The sensitivity analysis of population projections", Demographic Research, vol. 33, no. 28, pp. 801-840.

% The supporting material contains nine excel files and ten Matlab codes
% (see list and brief explanation below). This set of materials can be
% used to replicate the analyses and figures shown in the paper.

% To do so:

% 1) Save the set of supporting materials in a folder on your computer.

% 2) Open the file "Dem_prevalence". In line 28, fill in the path to your
% folder. Run the "Dem_prevalence" file.

% 3) Open the file "Spain_support". In line 10, fill in the path to your
% folder. Run the "Spain_support" file.

% 4) Open the file "Projection_Spain". In line 23, fill in the path to your
% folder. Run the "Projection_Spain" file.

% 5) Run the "Analysis_sensitivity" file.

% 6) Run the "Figures" file.

% The supporting material contains:

% Excel files: These contain fertility, mortality, migration and other data
% sets on which the population projection and sensitivity analyses are based.

% - ConsSpain.xlsx:

% Consumption data for Spain (source: National Transfer Accounts Project:
% <http://ntaccounts.org>)

% - FertSpain.xlsx:

% Fertility data for Spain (for each projection year, source: Instituto
% Nacional de Estadística: <http://www.ine.es>)

% - ImmigrSpain-f.xlsx:

% Female immigration data for Spain (for each projection year, source:
% Instituto Nacional de Estadística: <http://www.ine.es>)

% - ImmigrSpain_m.xlsx:

% Male immigration data for Spain (for each projection year, source:
% Instituto Nacional de Estadística: <http://www.ine.es>)

% - IncomeSpain.xlsx:

% Income data for Spain (source: National Transfer Accounts Project:
% <http://ntaccounts.org>)

% - MortEmigrSpain-f.xlsx:

% Female mortality and emigration data for Spain (for each projection
% year, source: Instituto Nacional de Estadística: <http://www.ine.es>)

% - MortEmigrSpain-m.xlsx:

% Male mortality and emigration data for Spain (for each projection
% year, source: Instituto Nacional de Estadística: <http://www.ine.es>)

% - PopSpain-f.xlsx:

% Initial female population data for Spain (source: Instituto Nacional
% de Estadística: <http://www.ine.es>)

% - PopSpain-m.xlsx:

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% Initial male population data for Spain (source: Instituto Nacional
% de Estadística: http://www.ine.es)

% Matlab codes: These contain the codes to calculate a population
% projection for Spain and the sensitivity and elasticity analyses and to
% create the figures from the paper.
% Some of the codes contain functions or create input data files on
% which the main analyses are based.
% - Analysis_sensitivity.m
% - delta.m
% - Dem_prevalence.m
% - elasticity_N.m
% - elasticity_ratio.m
% - Figures.m
% - Projection_Spain.m
% - sensitivity_N.m
% - Spain_support.m
% - vec.m
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