

This directory contains additional materials for "Redistribution and Social Insurance".

The additional materials are organized into subdirectories with readme files in each describing the contents and identifying the main file, which contains further information at the beginning and comments throughout the file together with the references to the other files in the subdirectory.

20111550\_\_distributions:

These files can be used to construct 3 sets of initial period distortions and their decompositions for three examples of distributions discussed in the paper.

The main file is distributions2\_v3.m

The pareto-lognormal pdf and cdf files need to be in the same directory.

The .eps files are saved at the end and existing files would be replaced.

20111550\_\_kurtosis:

These files can be used to construct 3 sets of initial period distortions and their decompositions for increasing values of kurtosis discussed in the paper and the online appendix.

The main file is kurtosis2.m

The pareto-lognormal pdf and cdf files need to be in the same directory.

The .eps files are saved at the end and existing files would be replaced.

20111550\_decompositions:

These files construct decompositions into  
intertemporal and intratemporal forces  
for 2 sets of 3 histories from allocation .out files,  
and plot the decompositions in the baseline case.  
The main file is decompositions5c.m  
The allocation .out files need to be located  
in the same directory.  
The .eps files are saved at the end  
and existing files would be replaced.

#### 20111550\_experiments:

This main file is histories4experiment2.m  
It constructs 2 sets of 3 histories  
from allocation .out files,  
compares them to 2 static experiments discussed in the paper and the  
appendix,  
and plots the experiments in the baseline case.  
The allocation .out files are assumed to be in the same directory.  
The .eps files are saved at the end and existing .eps would be  
replaced.

#### 20111550\_histaverages:

The main file is historiesavg3.m  
It reads simulated averages from simulation .out files  
for a set of 3 histories and plots the average distortions in the baseline  
case.  
These files can also be used to produce the robustness  
figure for the averages discussed in the appendix.  
The allocation .out files need to be  
already in the same directory.  
The .eps files are saved at the end  
and existing files would be replaced.

#### 20111550\_histlogn:

This main file is historiesavglogn2  
It constructs 2 sets of 3 histories from allocation .out files,  
1 for baseline case and 1 for lognormal experiment.  
It then loads the averages for the two cases  
and plots the distortions and the averages.  
The allocation .out files are assumed to be  
already in the same directory.  
The .eps files are saved at the end  
and existing files would be replaced.

20111550\_histories:

The main file is histories4b.m  
It constructs 2 sets of 3 histories  
from allocation .out files and plots the distortions in the baseline case.  
The allocation .out files are assumed to be  
already in the same directory.  
The .eps files are saved at the end  
and existing files would be replaced.