

CONTENT OF PHASE 1 & 2 PROGRAM CODE

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(Text description of idea for which initial phases of computational structure are implemented in code files:

Sample computational structures towards an epidemic simulation tool comprising communicating programs on mobile phones and servers

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So that it is all described in one file, I have put here the filenames ... and site links ... to download the codefiles which may also be optionally opened with a text-viewing app such as Microsoft's Notepad; the content described is the multiple code files for each of the object classes in the Phase 1 program of a sample (to illustrate structure) individual-level-model simulation (/microsimulation/agent-based-models) & Phase 2 program for simulating multiple epidemics within a simulation of analog humans moving and interacting (also sample & simple to illustrate structure). The Phase 1 structure is similar to individual-level-models / microsimulations in research literature although with a sample model. Comparing the program structures for the different phases from Phase 1 to Phase 2 to Phase 3 (sample simulation of the epidemic simulation tool) to Phase 4 (sample demo of the epidemic simulation tool) can be used to relate the structure of individual-level-models to the possible structures of an epidemic simulation tool. (The code files for Phase 1, Phase 2, Phase 3 and Phase 4 are also available; the Phase 1 & Phase 2 code files content is the same as the content described here.)

A summary description of the idea for the epidemic simulation tool is in a separate file.

SIMULATION (Phase 1):

[note: as part of testing, some of the files generated by this code are large.]

RunSim.java

Clock.java

CentralParametersAndData.java

Location.java

Human.java

SIMULATIONS WITHIN SIMULATION (Phase 2):

[note: as part of testing, some of the files generated by this code are large.]

RunSimAnalogSim.java

Clock.java

CentralParametersAndData.java

Location.java

SimAnalogHuman.java

SimHuman.java

Listed Filenames in site link below:

[... filenames, including if any short .txt note files ...]

Site link... where files may be found to download ...:

[...see ESM_1.txt for site link ...]

Note that there is the option to open the java files with a text viewing application such as Microsoft's Notepad.