A PhD student playing with LEGO:

Microsimulation for dummies

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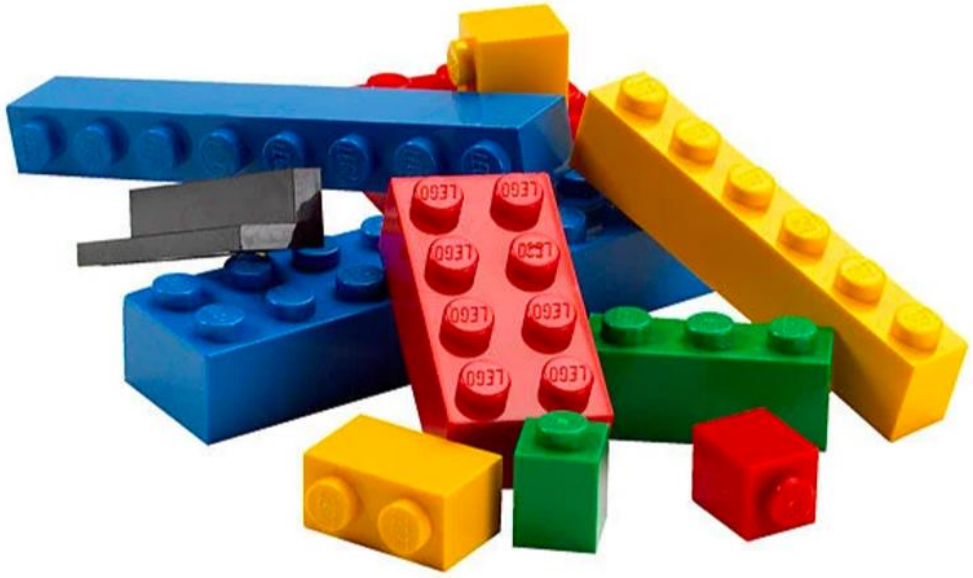
Materials for the 'Lego city' ...

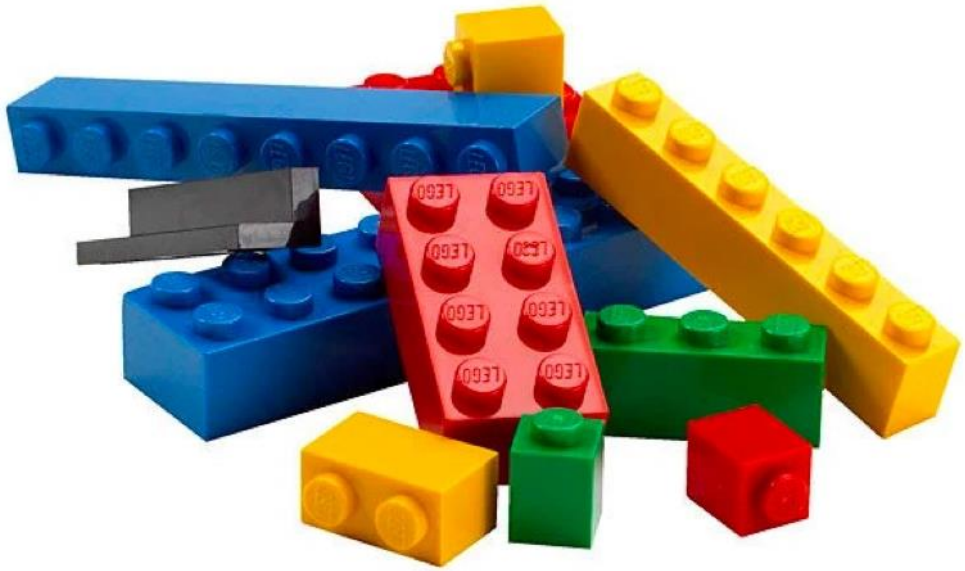


Building Bricks

Mini Figures

Instruction booklets

Materials for the modeller's 'Lego city' ...



Real-world data (survey data etc.)

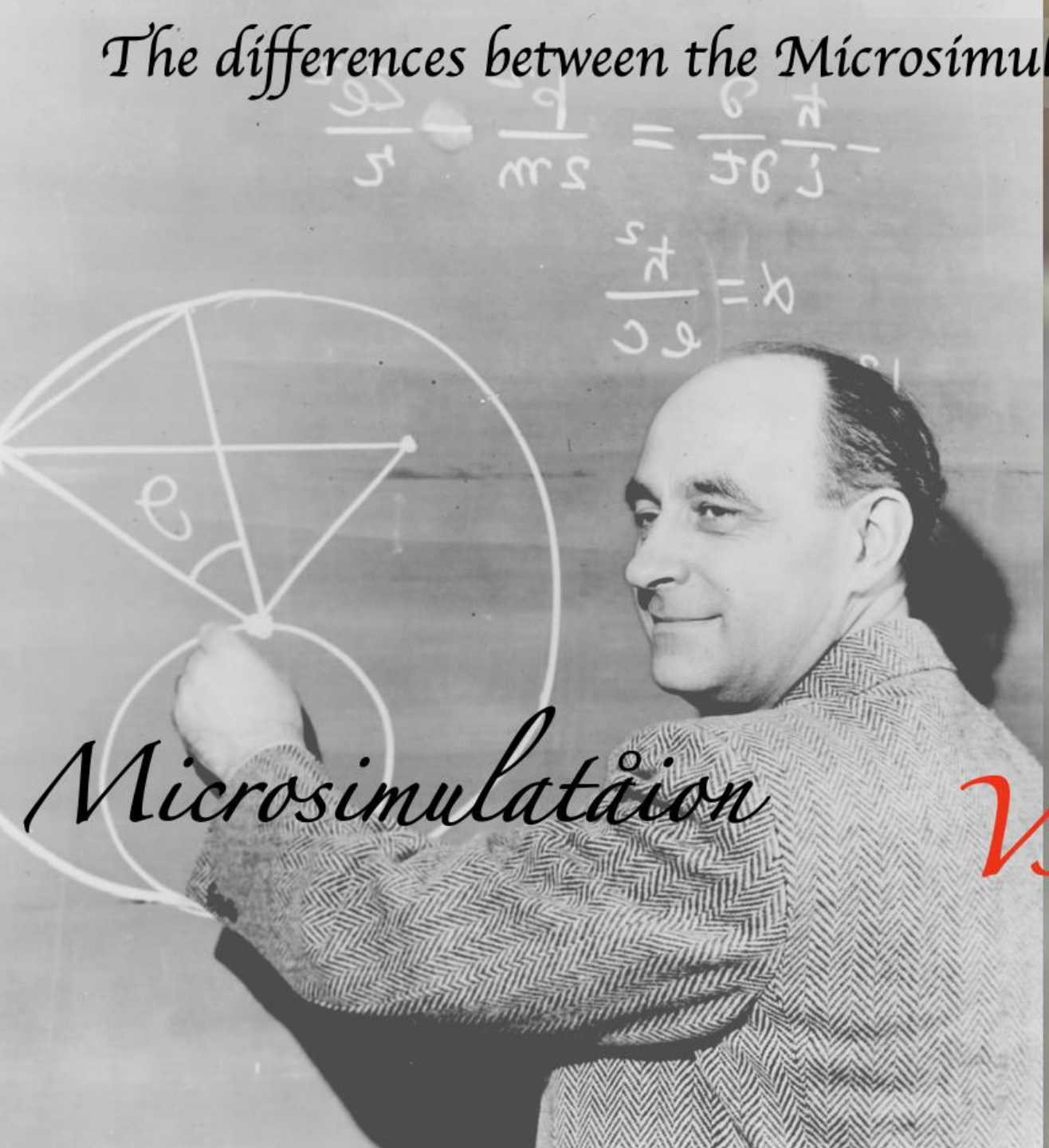
Individual with attributes (age, sex, income level etc.)

formulars, statistical model results etc.

The microsimulation process

- Initial year: create the targeted population with different Individuals equipped with different characters
- Simulate the individual status in a year-by-year step (with or without intervention)
- End of the time cycle: stop the simulation of individuals
- Aggregate individuals to produce health, economics and equity outcomes

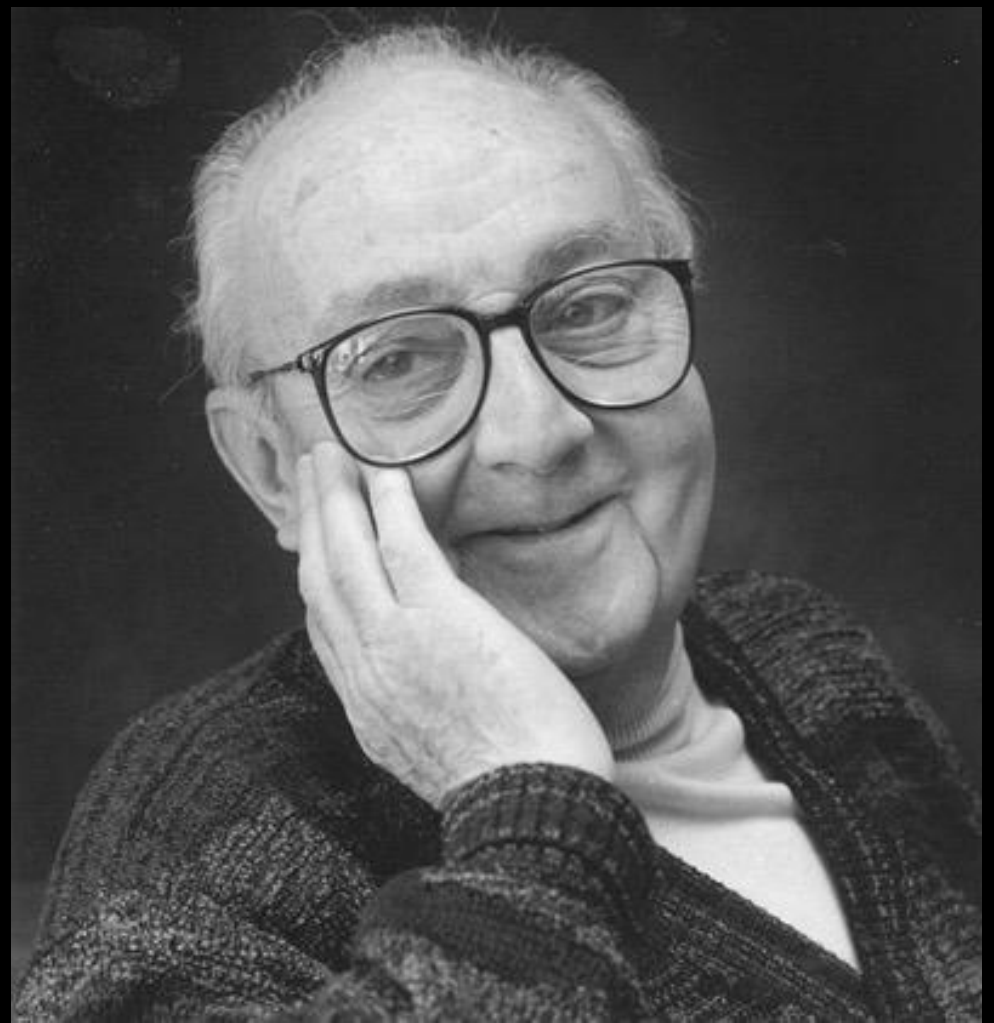
The differences between the Microsimulation & t Machine Learning



Microsimulatåion

Vs

Machine Learning



All models are wrong,

but some are useful.

George P.E. Box