

Automatic Synthesis of Comparator Circuit Using Genetic Algorithm and SPICE Optimizing Function

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The more complicated the circuit topology,
the more **difficult for an engineer to design.**

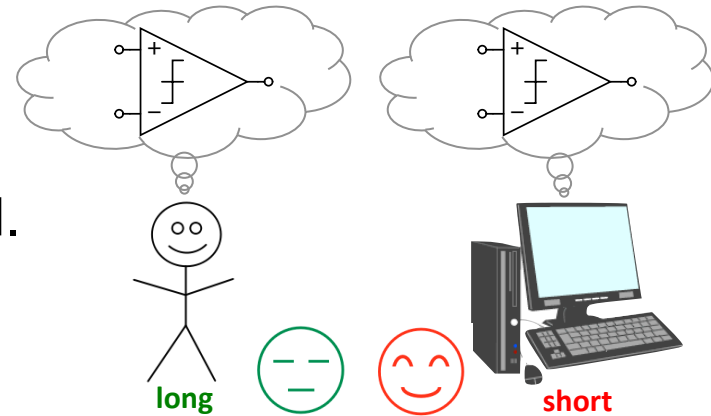
Automatic design by computer is demanded.

(Designed in a short time than engineers)

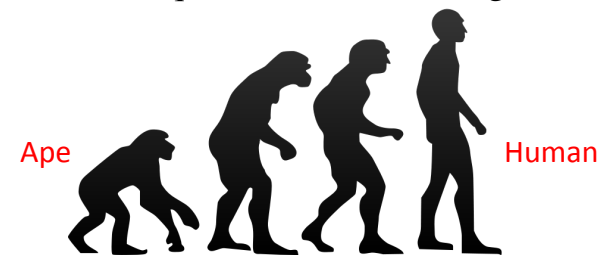
- Determines circuit parameters
using **HSPICE optimization function**
- Evolve circuit topology
using **Genetic Algorithm**

We have developed

Automatic synthesis program
for comparator circuit



Time required for circuit design



Genetic Algorithm
based on "Darwin's Evolution Theory"