John von Neumann

28/12/1903 – 08/02/1957

The von Neumann Architecture

In 1945 Neumann described the first computer in which the program and data were stored in the same address space. This architecture prevails today.

Random Numbers

Von Neumann co-developed the Monte Carlo method and pioneered the generation of pseudorandom numbers.

Merge Sort

Knuth credits von Neumann with developing the merge sort algorithm in 1945.

Game Theory ... Mathematical Programming ...

Presidential Medal of Freedom 1956