

100 years of COMPUTER SCIENCE

10 Academic Papers that Changed Computing Over 10 Decades



1923

On the significance of the principle of excluded middle in mathematics, especially in function theory
Luitzen Egbertus Jan Brouwer

On Countable Numbers, with an Application to the Entscheidungs problem
Alan Turing

1936



1948

A Mathematical Theory of Communication
Claude E. Shannon

Non-Cooperative Games
John Nash

1950



1960

Recursive Functions of Symbolic Expressions and Their Computation by Machine, Part 1
John McCarthy

Time, Clocks, and the Ordering of Events in a Distributed System
Leslie Lamport

1978



1983

Probabilistic Encryption
Shafi Goldwasser, Silvio Micali

Growing a Language
Guy Steele

1998



2002

Practical Byzantine Fault Tolerance and Proactive Recovery
Miguel Castro, Barbara Liskov

Propositions as Types
Philip Wadler

2014



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