



Reversal Research Technical Report (Classic Reprint) (Paperback)

By Jian-Er Chen

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Reversal Research Technical Report The number of reversals made by tape heads during a Turing machine computation has assumed new importance as a complexity measure in complexity theory. This is because reversal complexity is intimately connected with uniform circuit depth and parallel time. For example, Hong [7] showed that reversal in sequential machine models (including the standard Turing machines) corresponds to parallel time in parallel machine models. Also Pippenger [9] show that simultaneous time and reversal in Turing machines are polynomially related to simultaneous size and depth in uniform circuits. However, reversal complexity has some unexpected properties which, until recently, made researchers treat it as a curiosity rather than as a fundamental computational resource. Baker and Book [1] showed the surprising fact that every recursively enumerable set can be recognized by a nondeterministic Turing machine making at most two tape reversals. Moreover, unlike time complexity and space complexity which have nice properties such as linear speedup and tape reduction , reversal complexity has defied attempts at finding similar theorems in the multitape Turing machine model. About the Publisher Forgotten Books publishes hundreds...



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