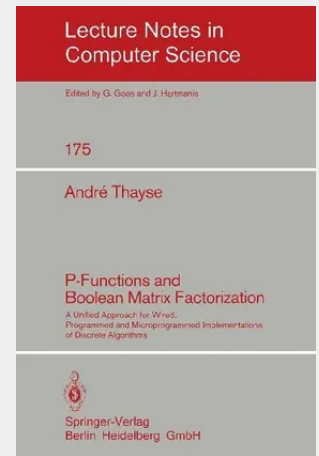


P-Functions and Boolean Matrix Factorization

A Unified Approach for Wired, Programmed and Microprogrammed Implementations of Discrete Algorithms

Instructions and models of algorithm implementation.- The synthesis of algorithms.- The formulation of algorithms synthesis in terms of P-functions.- The synthesis of (or)-interpreted matrix-instructions with disjoint columns.- The synthesis of (or)-interpreted matrix-instructions.- The synthesis of (and)-interpreted matrix-instructions.- A summary and the conclusion of part I.- Representation of instructions by means of parallel flowcharts or of Petri nets.- Synchronous and asynchronous implementation of instructions.- Programmed implementation of instructions.- Microprogrammed implementation of instructions.- A summary and the conclusion of part II.- Laws acting on P-functions.- The multivalued extension of P-functions and of their laws.- The vectorial extension of P-functions and of their laws.- Finite automata, matrix-instructions and speech recognition.

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