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By Marvin Minsky, Seymour A. Papert

MIT Press Ltd, United States, 2017. Paperback. Condition: New. Language: English . Brand New Book. The first systematic study of parallelism in computation by two pioneers in the field. Reissue of the 1988 Expanded Edition with a new foreword by Leon Bottou. In 1969, ten years after the discovery of the perceptron -- which showed that a machine could be taught to perform certain tasks using examples -- Marvin Minsky and Seymour Papert published Perceptrons, their analysis of the computational capabilities of perceptrons for specific tasks. As Leon Bottou writes in his foreword to this edition, Their rigorous work and brilliant technique does not make the perceptron look very good. Perhaps as a result, research turned away from the perceptron. Then the pendulum swung back, and machine learning became the fastest-growing field in computer science. Minsky and Papert's insistence on its theoretical foundations is newly relevant. Perceptrons -- the first systematic study of parallelism in computation -- marked a historic turn in artificial intelligence, returning to the idea that intelligence might emerge from the activity of networks of neuron-like entities. Minsky and Papert provided mathematical analysis that showed the limitations of a class of computing machines that could be considered as...



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