# NEURAL NETWORKS
THEORY, TECHNOLOGY, AND APPLICATIONS
PATRICK K SIMPSON

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A neural network is a network or circuit of neurons, or in a modern sense, an artificial neural network, composed of artificial neurons or nodes. Thus a neural network is either a biological neural network, made up of real biological neurons, or an artificial neural network, for solving artificial intelligence (AI) problems. The connections of the biological neuron are modeled as weights. A positive weight reflects an excitatory connection, while negative values mean inhibitory connections. All inputs Neural network technology for automatic target recognition. Michael W. Roth, [1990]. Neural network training using the bimodal optical computer. Application of neural networks to pattern recognition problems in remote sensing and medical imagery. Jo Ann Parikh, John S. DaPonte, Meledath Damodaran, Porter Sherman, [1990]. Enhanced neural net learning algorithms for classification problems. Theory. Classification power of multiple-layer artificial neural networks. Ernest Robert McCurley, Kenyon R. Miller, Ronald Shonkwiler, [1990].