

Research on artificial neural networks and their applications in telecommunications

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Abstract: This topic focuses on researching modern artificial neural network (ANN) models and applying them to the telecommunications field to address challenges in transmission, signal processing, and data analysis. The main objective is to design an ANN-based system to improve service quality and optimize network performance. The research method combines ANN theory with practical experiments, providing feasible solutions for future telecommunications applications. These results not only contribute to scientific knowledge but also open up new development directions in the field of information technology.

Keywords: Artificial Neural Network, Telecommunications, Data Analysis