

Understanding the problem of character recognition based on predefined patterns

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Abstract: This topic focuses on researching and applying machine learning methods to solve the problem of recognizing characters according to predefined patterns. In the increasingly prevalent context of information technology, this issue is not only theoretical but also holds great practical significance in many fields such as finance, healthcare, and communications. The objective of the research is to build an effective automatic recognition system based on integrating advanced machine learning algorithms with basic image signal processing methods. Through the experimental process, the topic aims to achieve results that can be directly applied to solving practical problems and contribute to the development of character recognition technology.

Keywords: character recognition, machine learning, image signal processing