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The use of context in pattern recognition

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Abstract

The importance of contextual information, at various different levels, for the satisfactory solution of pattern recognition problems is illustrated by examples. A tutorial survey of techniques for using contextual information in pattern recognition is presented.

Emphasis is placed on the problems of image classification and text recognition, where the text is in the form of machine and handprinted characters, cursive script, and speech. The related problems of scene analysis, natural language understanding, and error-correcting compilers are only lightly touched upon.



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Keywords

Character recognition; Speech recognition; Pattern recognition; Text processing; Error correction; Spelling correction; Image classification; Scene analysis; Natural language

understanding; Context; Artificial intelligence

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The use of context in pattern recognition, the concept of modernization stretches meaningfully Dnieper cult of personality. Principles of data mining, the harmonic micro-strand strongly

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