

Script identification: a review

Original Research Published: 19 June 2018

Volume 14, pages 459–473, (2022) [Cite this article](#)



International Journal of Information Technology

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Abstract

Humans have been able to express their inner self through various means like speaking and writing. Languages, which form a tool for communication, have been used in different civilizations for expression. Languages, which are spoken as well as written, have been written using symbols which form the script. Since the advent of computers automated documents are being produced which chiefly contains the text written in one or more scripts. As the amount of these documents grows their automatic processing becomes inevitable. One of the key aspects of this automatic processing is the identification of the scripts with which the documents are written known as script identification. Since many decades now various script identification systems have been developed which work for various types of scripts and under various scenarios as per the requirements of the users. In this piece of work, an effort has been made to

present a review of the work performed with respect to script identification over the past few decades.

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Abbreviations

ANN: Artificial neural networks

BCE: Before Common Era

BEMD: Bi-dimensional empirical mode decomposition

CC: Connected component

CJK: Chinese, Japanese, Korean

LLC: Locally-constrained Linear Coding