Abstract

This paper presents a survey of the literature on writer identification schemes and techniques up till date. The paper outlines an overview of the writer identification schemes mainly in Chinese, English, Arabic and Persian languages. Taxonomy of different features adopted for online and offline writer identification schemes is also drawn at. The feature extraction methods
adopted for the schemes are discussed in length outlining the merits and demerits of the same. In automated writer identification, text independent and text dependent methods are available which is also discussed in this paper. An evaluation of writer identification schemes under multiple languages is also analyzed by comparing the recognition rate.

Reference

A Survey on Writer Identification Schemes


features and linear transform,” in International Conference on Document Analysis and
Recognition.
- Tan, T. N. (1992) “Texture feature extraction via visual cortical channel modeling,” in
writer identification,” in International Conference on Document Analysis and Recognition, pp.
242–256.
contours and edge-based features of uppercase western script, IEEE Transactions on Pattern
construction of a reference base,” in International Conference of Document Analysis and
Recognition, pp. 1163–1167.
- Arazi, B. (1983) “Automatic handwriting identification based on the external properties of
International Conference on Document Analysis and Recognition.
handwriting,” in Proceedings of 10th International Workshop on Frontiers in Handwriting
Recognition, (La Baule, Centre de Congreee Atlantia, France), pp. 23–26.
of dynamic and static features,” in International Workshop Biometric Recognition Systems, p.
197.
whiteboard data, Pattern Recognition Journal, 41, 23821–23897.
of barycenter of pen-point movement,” in IEEE International Conference on Image Processing,
- Tsai, L. M. Y. (2005) “Online writer identification using the point distribution model,” in
- Hiroshi Kameya, S.M., Oka, R. (2003) “Figure-based writer verification by matching
between an arbitrary part of registered sequence and an input sequence extracted from on-line
handwritten figures,” in International Conference on Document Analysis and Recognition,
interdependency between static and dynamic features of handwriting, in: Proceedings of the
10th International Workshop on Frontiers in Handwriting Recognition, pp. 505–510.

**Index Terms**

Computer Science

Pattern Recognition

**Key words**

Feature extraction

online and offline schemes

text independent

text dependent

Writer identification