Handwriting Analysis for Detection of Personality Traits using Machine Learning Approach

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Abstract

Among all the unique characteristics of a human being, handwriting carries the richest information to gain the insights into the physical, mental and emotional state of the writer. Graphology is the art of studying and analysing handwriting, a scientific method used to determine a person's personality by evaluating various features from the handwriting. The prime features of handwriting such as the page margins, the slant of the alphabets, the baseline etc. can tell a lot about the individual. To make this method more efficient and reliable, introduction of machines to perform the feature extraction and mapping to various personality traits can be done. This compliments the graphologists, and also increases the speed of analysing handwritten samples. Various approaches can be used for this type of computer aided graphology. In this paper, a novel approach of machine learning technique to implement the automated handwriting analysis tool is discussed.

References
17. Srihari S.N., Sung-Hyuk Cha and Sangjik Lee, “Establishing handwriting Individuality

**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Graphology, Personality Traits, Handwriting, Feature Extraction, Margins, Baselines, T-bar.