Novel approaches to automated personality classification: Ideas and their potentials

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Abstract:
In this paper, we propose several new research directions regarding the problem of Automated Personality Classification (APC). Firstly, we investigate possible improvements of the existing solutions to the problem of APC, for which we use different combinations of the APC corpora, psychological trait measurements, and learning algorithms. Afterwards, we consider extensions of the APC problem and the related tasks, such as dynamical APC and detecting personality inconsistency in a text. This entire research was performed in the context of social networks and the related datamining mechanisms.

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I. Introduction

Personality classification is one of the problems considered by personality psychology, a branch of psychology. The focus of this field is the study of personality and individual differences. According to that study, personality can be defined as a dynamic and organized set of characteristics of a person, which have a unique influence on cognition, motivation and behavior of that person. In this paper the problem of automated personality classification is considered based on information from the following content: textual content that the person wrote and meta information about a person received on request, through social networks or other means. There are studies that also include speech, analysis of facial characteristics, gestures and other aspects of behavior, but they are not the subjects of our study. The standard approach to solving the APC problem based on the aforementioned content is described in the following steps: A. Gathering the corpus data, B. Determination of the personality characteristics of the participants, and C. Building the model.

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