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Enriching behavioural biometrics experiments with an ontology

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Abstract:

Behavioural biometrics are increasingly being used to authenticate users for various applications. As active research is being conducted for behavioural biometrics, researchers face difficulty in sharing and annotating experimental data. This can be solved using an ontologies. An ontology is a logical model that can be used to formally represent knowledge such that machines and humans can process or understand them. In this paper, we propose using an ontology for enriching the field of behavioural biometrics. We first describe an ontology with the focus on mouse and keystroke dynamics and show how the ontology can be used to facilitate sharing and extracting experimental data.