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Biometric Identification of a Genuine User/Imposter from Keystroke Dynamics Dataset

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Abstract : Keystroke dynamics has been used to strengthen password-based user authentication systems by considering the typing characteristics of legitimate users. Dependence on computers to store and process sensitive information has made it necessary to secure them from intruders a behavioral biometric, keystroke dynamics flow which makes utilization of the typing style of an individual can be utilized to reinforce existing security systems adequately and inexpensively and the examination of keystroke validation, to use the Discrete Cosine Transform (DCT) to describe the keystroke progression, and gives BeiHang keystroke dataset comes about are one of the well-known classifier random forest classifier it best results achieved were respectively 90% accuracy when compared with other classifier results such as Support Vector Machine and Random tree classifier.

Keywords: Keystroke Dynamics, Biometrics, Discrete Cosine Transform, Support Vector Machine, Random forest classifier, Random Tree Classifier, Receiver Operating Characteristic.

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