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KeyRecs: Keystroke Dynamics Dataset

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KeyRecs is a keystroke dynamics dataset that can be used to train, validate, and test machine learning models for anomaly detection and robust typing pattern recognition, as well as the clustering and classification of users that present a similar behavior. It contains fixed-text and free-text samples of user typing behavior, obtained in a study with 100 participants of 20 different nationalities performing password retype and transcription exercises.

The samples consist of inter-key latencies computed by measuring the time between each key press and release during an exercise, following a digraph model. Additionally, the participants were also asked to provide their demographic information regarding age, gender, handedness, and nationality.

KeyRecs can be valuable to enhance the recognition of authorized users and prevent illegal logins in biometric authentication software, and can be combined with additional data recordings to create more extensive datasets and improve the generalization of machine learning models.

If you use this dataset, please cite the primary data article: https://doi.org/10.1016/j.dib.2023.109509

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demographics.csv

participant	handedness	age	gender	nationality
p001	Right-Handed	51	Male	Portugal
p002	Right-Handed	31	Male	Italy
p003	Right-Handed	21	Male	Poland
p004	Right-Handed	33	Male	Mexico
p005	Right-Handed	22	Male	Greece
p006	Right-Handed	21	Male	Poland
p007	Right-Handed	27	Female	United Kingdom
p008	Right-Handed	24	Female	Hungary
p009	Right-Handed	24	Female	Portugal
p010	Right-Handed	45	Male	Estonia

Files (31.1 MB)

demographics.csv

md5:da9be3c6c007c4b4a43008351b095e10 ❓

3.6 kB

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fixed-text.csv

md5:f3c2ef3a42625f4df7183ea36d4543db ❓

5.7 MB

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free-text.csv

md5:a5ca6fcb0970cfdcd8eb958b3fe9f22a ❓

25.4 MB

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