

Biometric Based User Identity Verification

ABSTRACT

The present disclosure provides devices, methods and systems for biometric based user identity verification. In some examples, there is provided a device for user identity verification, the device comprising: a processor; and a memory including computer program code. The memory device and the computer program code are configured to, with the processor device, cause the device to: obtain a set of user data associated with a user, the user data including biometric data and personal information of the user, wherein the biometric data includes a face image of the user, and wherein the personal information includes the user's email address, name, phone number, Internet Protocol (IP) address, and/or equipment identifier number; conduct a face search in a historical user database based on the face image of the user; if the face search returns no result, identify the user as a new user, and if the face search returns one or more similar faces of historical users, retrieve a list of the historical users and corresponding personal information, generate a similarity score by quantifying similarity between personal information of each historical user in the list and that of the user, and identify the user as a historical user of the list of the historical users that has a highest similarity score among the similarity scores of the list of the historical users.

(Figure 3)