

1 HJR30
2 209682-2
3 By Representative Rowe
4 RFD: Rules
5 First Read: 04-FEB-21

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2 ENROLLED, House Joint Resolution,

3 RECOGNIZING TOUCHLESS FINGERPRINT MATCHING SYSTEMS

4 AS A VIABLE BIOMETRIC SECURITY SOLUTION.

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6 WHEREAS, touchless fingerprint matching systems,
7 developed in part in Alabama, are a breakthrough technology in
8 the emerging field of biometric security; and

9 WHEREAS, a touchless fingerprint matching system is
10 a method for use with a mobile communication device to perform
11 touchless fingerprint authentication, comprising: Storing, in
12 memory, a plurality of templates indicative of images of a
13 fingerprint at different depths of field, each of the
14 templates defining feature descriptors for a plurality of key
15 points within one of the images of the fingerprint at a
16 respective depth of field; capturing an image of a fingerprint
17 with a camera; identifying with at least one processor a
18 plurality of key points in the captured image; characterizing
19 with at least one processor each of the plurality of key
20 points in the captured image with a feature descriptor that
21 includes a plurality of intensity values for adjacent pixels
22 around the key point being characterized; comparing with at
23 least one processor the feature descriptors characterizing the
24 plurality of key points in the captured image to feature
25 descriptors for each of the templates; and authenticating a

1 user of the mobile communication device based on the
2 comparison; and

3 WHEREAS, there exist a myriad of potential
4 applications for touchless fingerprint matching systems,
5 including, but certainly not limited to, basic physical
6 security, virtual document security, identity protection,
7 professional licensure, as well as voter identification and
8 security; touchless fingerprint matching systems are currently
9 used around the nation and the world in these capacities as
10 well as many more; and

11 WHEREAS, the benefits of touchless fingerprint
12 matching systems are as numerous as the potential
13 applications, including enhanced security through increased
14 accuracy, cost-effectiveness in both implementation and
15 storage of fingerprint data, ease of collaboration between law
16 enforcement or regulatory agencies due to the ease of
17 fingerprint data transfer, and ease of access to all persons
18 by replacing, in some cases, the need for separate physical
19 identification cards; now therefore,

20 BE IT RESOLVED BY THE LEGISLATURE OF ALABAMA, BOTH
21 HOUSES THEREOF CONCURRING, That the State of Alabama
22 recognizes touchless fingerprint matching systems as a viable
23 biometric security solution to the technological security
24 problems of the modern world.

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4 Speaker of the House of Representatives

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6 President and Presiding Officer of the Senate

7 House of Representatives

8 I hereby certify that the within Act originated in
9 and was adopted by the House 11-FEB-21.

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Jeff Woodard
Clerk

Senate

09-MAR-21

Adopted