116TH CONGRESS
1ST SESSION

H. R. 5532

To authorize the Director of the National Science Foundation to establish prize competitions related to deep fake detection technology.

IN THE HOUSE OF REPRESENTATIVES

DECEMBER 19, 2019

Ms. WEXTON introduced the following bill; which was referred to the Committee on Science, Space, and Technology

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A BILL

To authorize the Director of the National Science Foundation to establish prize competitions related to deep fake detection technology.

1 *Be it enacted by the Senate and House of Representa-*

2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4   This Act may be cited as the "Deep Fake Detection

5 Prize Competition Act".

6 **SEC. 2. FINDINGS.**

7   Congress finds the following:

8   (1) Prize competitions have been used through-

9   out America's history, dating back to the designing

10   of the United States Capitol Building in 1792.

1 (2) The America COMPETES Reauthorization
2 Act granted authority for Federal agencies to carry
3 out prize competitions in order to stimulate innova-
4 tion to advance each agency's mission.

5 (3) Prize competitions provide a benefit to the
6 American people by providing a high reward return
7 on taxpayer dollars.

8 (4) Since 2010, Federal agencies have con-
9 ducted nearly 1,000 prize competitions to help ad-
10 dress some of our Nation's greatest challenges.

11 (5) Prize competitions at the National Science
12 Foundation have helped to spark further research on
13 important and emerging topics within data science,
14 engineering, astrophysics, biology, and other areas.

15 (6) Artificial Intelligence and machine learning
16 (AI/ML) are rapidly being developed for deployment
17 across all sectors creating a demand for new innova-
18 tion from researchers and developers in order to ad-
19 dress technological and social challenges from AI/
20 ML.

21 (7) AI/ML technologies are currently being
22 used to create sophisticated deep fake videos, im-
23 ages, and audio, digital content that is manipulated
24 in order to spread false information which can lead

1 to a degradation of public trust and national secu-
2 rity concerns.

3   (8) As deep fake technology continues to ad-
4 vance, its detection will become increasingly difficult
5 without new tools for digital forensics.

6   (9) Although other Federal agencies are cur-
7 rently involved in supporting and conducting re-
8 search into deep fake detection technology in the
9 context of national security, research spurred by
10 prize competitions at the National Science Founda-
11 tion can have broader benefits for the American
12 public.

13 **SEC. 3. ESTABLISHMENT OF PRIZE COMPETITION.**

14   The Director of the National Science Foundation
15 shall carry out prize competitions pursuant to section 24
16 of the Stevenson-Wydler Technology Innovation Act of
17 1980 (15 U.S.C. 3719) to incentivize research into tech-
18 nology that advances detection of deep fake audio, images,
19 and video. The Director shall consider conducting subse-
20 quent or recurring competitions to account for changing
21 and advancing technologies.

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