

Brainprint: A Psychophysiological Biometric

Challenge:

- Find a way to use brain activity as a biometric.
- Potentially more secure than conventional biometrics.

Solution:

- Tap into multiple brain systems likely to produce unique responses across individuals.
- We designed a protocol that identifies users with 100% accuracy, over a period of up to 500 days.



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Scientific Impacts:

- Brain biometrics might provide a high security alternative to conventional biometrics in some applications.
- Our protocol advances understanding of how individuals' cognition is unique.

Broader Impacts:

- This project has been very exciting to the popular media, as it is “sci-fi”.
- Transition to practice outside of the lab is in progress.
- Popular press coverage has brought this work to a large audience.