

AI-trained computers can scan eye and facial movements to recognize subtle signs of stroke

Patients at Johns Hopkins Hospital who are suspected of having a stroke might get an unusual request from physicians: Can we film [your face](#)? The doctors' goal is to [identify stroke patients](#) by facial characteristics instead of waiting for brain scans or blood tests, helping speed both treatment and recovery.

The Johns Hopkins team is training a computer [algorithm](#) to recognize changes in the patients' features, such as the paralysis of certain facial muscles or unusual eye movements, that might indicate damage to the brain from a stroke as opposed to seizures, severe migraines or [anxiety](#) disorders.

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Early research efforts point to a future in which facial scans, perhaps embedded in a smartphone camera or even a bathroom mirror, might monitor our general health while picking up signs of long-term neurological ailments such as dementia. Some researchers believe algorithms might even be used to track how well a treatment or drug is working by detecting changes in a person's face.

"The problem is getting people to act on the data and trust the data," says Ken Stein, chief medical officer of [Boston Scientific](#), a biomedical firm which uses AI algorithms in its heart monitors to predict the risk of heart failure in some patients.

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