GAUSSIAN PROCESS AUDIOGRAM

Barbour, Dennis, Gardner, Jacob, Ledbetter, Noah, Song, Xinyu, Weinberger, Kilian

Maland, Brett

T-015053

Technology Description: The current audiogram takes 20 minutes per employee per test. The Gaussian Process Audiogram is an improved system for conducting audiograms that would cut the test time in half while avoiding 'false fails'. This is a machine learning approach to improve speed and/or accuracy of audiograms. Every year, approximately 30 million people in the United States are occupationally exposed to hazardous noise. This technology could transform a decades-old, inefficient practice while increasing the speed of conducting audiograms.