

Signal Detection Theory - a psychophysical theory that quantifies the response of an observer to the presentation of a signal in the presence of noise

- 4 Situations:
 1. Hit: Stimulus is present and observer responds yes
 2. Miss: Stimulus is present and observer responds no
 3. False Alarm: Stimulus is not present and observer responds yes
 4. Correct Rejection: Stimulus is not present and observer responds no

Many real-world problems can be conceptualized as a search for a signal amidst noise

Ex. Ultrasound → detecting cancer

Signal Detection theory makes a distinction between an observer's ability to perceive a signal and their willingness to report it

- Sensitivity - a value that defines the ease with which an observer can tell the difference between the presence and absence of a stimulus or the difference between 2 stimuli
- Criterion - an internal threshold that is set by the observer
 - If the internal response is above criterion, the observer gives one response (yes)
 - If it is below criterion, the observer gives another response (no)
 - Subject's willingness to say yes or no

$d' = 0$ → no sensitivity

$d' = 1$ → moderate sensitivity

$d' = 4$ → high sensitivity

For a fixed d' , all you can do is change the pattern of your errors by shifting the response criterion

When a hit is drastic → want a liberal criterion (to the left)

To limit false alarms → want a conservation criterion (to the right)

Joseph Fourier developed another useful tool for analyzing signals:

- Fourier analysis - a mathematical procedure by which any signal can be separated into component sine waves at different frequencies
 - Combining these component sine waves will reproduce the original signal
 - Sine wave:
 - 1. In hearing, a waveform for which variation as a function of time is a sine function → called a "pure tone"
 - 2. In vision, a pattern for which variation in a property, like brightness or color as a function of space, is a sine function

Why sine waves?

- Many stimuli can be broken down into a series of sine wave components using Fourier analysis

Sensation Perception And Action Study Guide

M Carnoy



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