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X13-VSA a Voice Stress Analysis Lie Detector Software
The most advanced voice analysis technology available today

Computer Voice Stress Analyzer

How It Works and information about X13-VSA
Voice Stress Analysis Lie Detector Software

Since ancient times, man has tried to determine if his fellow man is telling the truth. A medieval "truth by trial" technique called for sticking a suspected liar's hand into a fire; if it was not burned, a person was judged innocent. The ancient Chinese test required a suspected wrongdoer to chew rice powder while being questioned. If the powder stayed dry, the person was condemned on the theory that tension caused by lying blocked the salivary glands. During the time of the Pilgrims, suspected liars were often thrown fully-clothed into the middle of a lake; if they drowned they were innocent; if they floated, guilty.

Technology has brought us a long way from these ancient methods of detecting lies. Today many law enforcement agencies rely on the polygraph to determine lies from truth. A less intrusive truth verification device, the CVSA, is now also in use.

The CVSA was first used during the Vietnam War by U.S. soldiers in an attempt to determine if Vietnamese prisoners were Viet Cong guerrillas or civilians. During that time it was known as the PSE, or Psychological Stress Evaluator. After the war, private developers took over the technology, but it wasn't until the late 1980s that the CVSA became a tool widely used in police investigations.

The body has two nervous systems, the Central Nervous System and the Autonomic Nervous System. The Central system can be considered as concerning itself with those physical and sensory functions which occur at, or above the threshold of awareness. In other words, we have control over this system.

The Autonomic system is concerned primarily with those functions which occur below the threshold of awareness and operates on an automatic, self-regulating basis. The beating of the heart, the rise and fall of the lungs, the digestion of food, all complex processes of the body which must continue without any conscious effort are functions of the autonomic nervous system.

The heartbeat, for example, normally occurs at a rate kept within certain bounds. However, under the influence of physical stress such as exertion or effort, or emotional stress, such as fear, anger, or excitement, the heart rate will change. This is called the "fight or flight syndrome."

Since we are concerning ourselves with stress caused by psychological stimuli and not teaching physiology, we will accept the premise that there are many other functions going on in the body which are inherently related and vital to our being, but our main concern in this is the voice and how it is affected by psychological stress.

Use of the CVSA revolves around two basic components of speech: Amplitude Modulation (AM), and

Frequency Modulation (FM). AM sound is audible, FM is not.

Under relaxed conditions, the human voicebox is under control of the central nervous system. With the onset of stress, as when people lie, changes occur in the voice that causes the inaudible FM component to diminish or disappear. Although inaudible, the change can be detected by the CVSA. Increased stress ultimately results in the loss of the inaudible FM signal. Since this loss can be measured, the CVSA indicates the presence of stress and thus, depending on its application, deception.

The CVSA measures changes in a person's voice caused by stress. Under stress, the nervous system kicks into high gear, sending the voice response into an abnormal range. A normal-range response, the truth, appear as peaks on the CVSA print out. Lies, or stress, look like squared-off blocks

Computer Voice Stress Analyzer (CVSA) Introduction

A new tool has been introduced that assists law enforcement in determining the truthfulness of people making oral statements: the Computer Voice Stress Analyzer (CVSA). The CVSA has proven itself to be a valuable tool for law enforcement agencies because of its cost effectiveness. The CVSA may change the way law enforcement approaches the business of finding the truth from the spoken word.

The CVSA has definite benefits such as it: does not require a lengthy discussion of the questions used (is not restricted to "yes" or "no" answers, but rather can analyze any spoken word, or even a dull groan); eliminates the frustrating "inconclusive results" category that oftentimes was the finding of a polygraph examination; is not affected by the subject's age, medical condition, or history of drug use and can be used to analyze audio and video tapes for truth verification.

The CVSA works simply by measuring the tremors in the voice. When people lie, they place themselves under stress which causes a reaction in the autonomic nervous system. Under stress, the body prepares for an emergency which causes the blood to rush away from the limbs, and the muscles to tense. Since the vocal cords are principally muscle tissue, they too, tighten, causing sub-audible changes in the voice. These tiny changes of frequency modulations that occur in every human voice are called micro-tremors.

The variance in these inaudible and involuntary modulations are measured by the CVSA, and the results determine if a person is lying or telling the truth.

The analysis does not require any wires hooked to the body. An audio or video tape recording of a person's voice can be analyzed days or months after it was made. Thus, interviews, speeches or conversations could be tape recorded and analyzed even several years later. A 6-year old homicide was solved after an existing tape recording was analyzed which pointed to a suspect who had passed a polygraph examination. The suspect was re-interviewed using the CVSA, and confessed to the murder.

The CVSA records the subject's answer on a chart immediately after the examiner's question. This helps the examiner know which questions to ask next or to ask the same question over again for a second reaction.

Unfortunately, people lie to law enforcement personnel often, and many wrong decisions have been made based on a lie. The CVSA helps determine the truth before decisions are made.

COMPUTER VOICE STRESS ANALYZER CVSA Studys

CONCLUSIONS

As a result of studys, it appears that CVSA is as effective as polygraph, which is the question this study set out to answer. The CVSA was tested against the polygraph so that if one were to believe that one system works and it is compared to a different system under strict criteria, then the second system must have some merit if the results are equal. This comparative analysis studys has attempted to do just that.

All studys was conducted with live and tape recordings examinations. Studys was developed to verify and correlate the results between the CVSA and the polygraph during live and tape recordings examinations.

The exarninees of this studys stated the CVSA was less intimidating to them than the polygraph. The examinees stated that they felt "threatened" when "wired" to the polygraph instrument. The relaxed mode of testing used with the CVSA was preferred by the exarninee. The exarninees stated that they felt totally uncomfortable with the polygraph the its stressed mode of operation.

The polygraph is a good investigative tool. We must remember that both the polygraph and the CVSA are only investigative tools. They are to be used by an investigator to aid him in further developing his case. Both the polygraph and the CVSA are governed by very strict rules as to how they can be used and when they can be admitted in the criminal court proceedings. The rules are the same for both instruments. The polygraph world would lead you to believe that the only investigative tool that can be used to determine any form of deception is the polygraph. However, this is just not true. The only restrictions that the polygraph associations can lean toward is in the private sector under the Employee Polygraph Protection Act of 1988. However, that act does not apply to the conduct of criminal investigations and the use of any instrument in course of criminal investigations.

The issue of legal actions as they relate to both polygraph and CVSA is one that has again been removed from its proper context. The instruments are used as investigative tools and with either instrument, an investigator cannot take the results of any examination by polygraph or CVSA and obtain a search and seizure warrant, an arrest warrant, or make an arrest based solely on the results of either instrument's examination. The examination results may be placed in support of other evidence to obtain probable cause, but to use just the results of any test of deception without additional evidence should never get a warrant in the system. The results of any test with a lie detection system does not and cannot be grounds for probable cause. Both the polygraph and the CVSA are nothing more than investigative tools that are used in an effort to establish what the truth of any given situation should be.

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Originally developed for military use

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