

# Measure Noise With Smartphones Use The New Technology

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### Measure Noise With Smartphones Use

#### **Acoustical Measurements with Smartphones: Possibilities ...**

Jun 02, 2017 · app to use when calculating signal levels to determine an accurate sound level Unfortunately, it can be difficult for many users to accurately measure the built-in microphone sensitivity, often because the user lacks a properly calibrated SLM to use as a reference and/or sufficient know-how to avoid significant measurement errors Some smartphone

#### **Do Sound Meter Apps Measure Noise Levels Accurately?**

smartphones did not influence the results of the study For our experimental setup, we generated pink noise with a 20 Hz-20 kHz frequency range at levels from 65-95 dB in 5-dB increments (seven different noise levels) The measurement range was chosen to reflect the majority of typical occupational noise exposures encountered in the workplace

#### **Make Listening Safe**

do much to reduce noise exposure Monitor safe listening levels Use smartphone technology to measure noise exposure levels and inform yourself about the risk for noise-induced hearing loss from your personal audio device Applications or “apps” accessible through the smartphones can help by displaying noise intensity levels in decibels

#### **USE OF SMART PHONES TO PERFORM EXPERIMENTS**

Use of Smart Phones to Perform Experiments Hazardous noise levels Individuals are affected by noise differently Noise levels above 75-80 dB(A) are

known to cause hearing damage The louder the noise is, the less time it takes to cause damage Noise levels at 85 dB(A) 8 hours to cause hearing damage Noise at 100 dB(A) ½ hour to

### **NoiseMap - Real-time participatory noise maps**

restrictions all smartphones, indeed almost all phones today, are equipped with a microphone and GPS transceiver This enables their use as noise meter Combining the sheer number of potential noise sensors to a participatory network allows for the creation of high density real-time noise maps Furthermore, the ubiquity and the mobility make

### **Using smartphone pressure sensors to measure vertical ...**

One capability of smartphones which has received little attention is the use of their pressure sensor, or barometer, [20, 21] This sensor has been recently included in smartphones In particular, the popular Samsung Galaxy S III, launched in 2012, was one of the first to ...

### **Measure Chlorophyll a Fluorescence with Smartphones**

Measure Chlorophyll a Fluorescence with Smartphones Anna Friedrichs 1,\*, the signal-to-noise ratio and to suppress the impact of scattering A novel algorithm utilizing fluorescence by means of smartphones is an important step towards inclusion of smartphones into field data recording 2 ...

### **Sensors and Cellphones - Stanford University**

- Noise - Random deviation of the signal over time
- Systematic errors (drift) can often be corrected via calibration
- Random errors (noise) can be filtered out using signal processing techniques, but these are slow
- Particularly in the context of mobile devices - Anything that ...

### **Length- and Noise-aware Training Techniques for Short ...**

Besides noise, the duration of utterances is a factor of high importance for the accuracy [17] described the use of gamma-tone features in combination with i-vector on short utterances, [18] trained deep convolutional networks specifically on short utterances [1] described the use ...

### **Seismo: Blood Pressure Monitoring using Built-in ...**

use of SCG and PPG to reliably capture PTT for measuring BP, they use custom hardware with ultra low-noise accelerometers [3] to resolve the signal, while we focus on using only off-the-shelf commodity smartphones To measure the effectiveness of Seismo, we collected data from nine participants in four lab-sessions each Participants

### **SpiroSmart: Using a Microphone to Measure Lung Function on ...**

smartphone's camera and LED flashlight to measure pulse from the fingertip using photoplethysmography [11] While this requires users to be in contact with the device, Poh et al use a tablet's camera and blind source separation of co or channels to measure pulse at a distance [29] Audio Based Health Sensing

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### **NIOSH Sound Level Meter Application (app) for iOS devices**

The ubiquity of smartphones and the sophistication of current sound measurement applications present a great opportunity to revolutionize current data collection and surveillance practices for noise Through the use of crowdsourcing techniques, workers around the world may be able to collect and share workplace (or task-

### **o l u t i o n Eff Muruganandam et al, Pollut ff Cont 2018 ...**

in recent time, a new method to measure noise pollution involved the use of mobile phones although not that much correct The widespread appreciation of harmful effects of noise in developed countries, has led to the introduction of protective measures against noise pollution The maximum noise exposure for workers in USA is 90 dBA for one 8-h

### **Fine-grained Sleep Monitoring: Hearing Your Breathing with ...**

leveraging smartphones Our system exploits the readily available smartphone earphone placed close to the user to reliably capture the human breathing sound Given the captured acoustic sound, our system performs noise reduction to remove environmental noise and then identifies the breathing rate based on the signal envelope detection

### **Guide To Smartphone Sensors - NASA**

In the second part of this Guide, you will use data created from a variety of smartphone apps and examine this data using a variety of mathematical operations Smartphone apps can be downloaded that measure a variety of interesting physical properties such ...

### **Gyrophone: Recognizing Speech From Gyroscope Signals**

Modern smartphones and mobile devices have many sensors that enable rich user experience Being generally gyroscope designs use a single mass to measure the angular rate of different axes, while others use multiple Therefore to reduce the noise effects vendors manufacture gyros with a high resonance frequency (above

### **On the Use of Smartphones for Detecting Obstructive Sleep ...**

used to measure the oxygen level and provide continuous data transmission of a 4 byte data packet sent every second In the proposed system, we use the oxygen desaturation index (ODI) which is defined as the average number of events per hour [16] An event is detected if the oxygen level is below the average by 4%, and lasts at least

### **Hearing Loss Prevention Program**

to reduce underground haul truck noise by 3-5 dB(A) and more than double allowable exposure time • Complete the smartphone noise measurement app comparison study to demonstrate the feasibility of smartphones as noise measurement devices when equipped with an adequate microphone sensor At-A-Glance The Hearing Loss Prevention Program

### **Classical experiments revisited: smartphones and tablet ...**

Using smartphones and tablet PCs for - spectroscopy in an educational experimental setup Sebastian Gröber, Alexander Molz and Jochen Kuhn-Recent citations Electrocardiography with a Smartphone Lars-Jochen Thoms et al-Use smartphones to measure Brewster's angle Chun-Ming Chiang and Han-Yang Cheng-Lights and shadows in Physics teaching