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# **Energy Localization In Chirp Signals Upb**

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## **Energy Localization In Chirp Signals**

In the paper a proof for energy localization in chirp signals is given. It is based on an adequate choice of a certain functional

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which has a physical significance. The result is in accordance with the experimentally measured spectral distribution for exponentially modulated chirps. Keywords: energy localization, exponentially sine sweep.

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In the paper a proof for

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energy localization in chirp signals is given. It is based on an adequate choice of a certain functional which has a physical significance.

**Energy localization in chirp signals - ResearchGate**

Energy Localization In Chirp Signals Energy localization in chirp signal 77 Fig. 1 a) The spectrogram and b) the modulus of the Fourier

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transform for a chirp  
signal with linear  
sweep frequency,  $f$   
 $\in [100, 10000]$  Hz. The  
structure of the chirps  
used in IMM Generally  
speaking, a chirp is a  
rapidly varying signal,  
ex.  $\sin 1/(t)$ . ENERGY  
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## **Energy Localization In Chirp Signals Upb**

Instead of bouncing an impulse off the target aircraft, a chirp signal is used. After the chirp echo is received, the signal is passed through an antichirp system, restoring the signal to an impulse. This allows the portions of the system that measure distance to see short pulses, while

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the power handling  
circuits see long  
duration signals.

### **Chirp Signals - DSP**

energy-concentrated domain, in which the energy distribution of chirp signal shows an obvious peak. We assume that a chirp signal is modeled as  $y(t) = A e^{j\pi \beta t^2} e^{j\omega_0 t} + n(t)$  where  $\beta$  is a constant,  $A$  symbolizes the amplitude of the chirp

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signal,  $\phi_0$  is the initial  
phase,  $f_0$  is the initial  
frequency, and  $\mu_0$  is ...

## **Separation and localization of multiple distributed**

...

Abstract: Active target  
detection and  
localization is a  
classical signal  
processing problem  
that arises in various  
military and biomedical  
applications. A novel  
method for the

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detection and estimation of the range, velocity and direction of arrival (DOA) of multiple far-field targets using wideband chirp signals is proposed in this paper.

**Multiple Target  
Localization Using  
Wideband Echo  
Chirp Signals**

Energy theft is a widespread problem results in loss to the

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utilities and affects the financial viability of utilities. Hence utilities strive for minimization of theft by carrying out various reform projects. Smart meters, AMI and Theft localization algorithms are some of the tools which will enable them to meet the challenge. Many techniques/algorithms are available for theft localization ...

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**Localization of  
Pilferage of Energy  
Using PLC Signals  
for ...**

Localization of  
Pilferage of Energy  
Using PLC Signals for  
an Unbalanced  
Distribution System.

International

Transaction of  
Electrical and  
Computer Engineers  
System. 2017;

4(1):39-48. doi:

10.12691/iteces-4-1-5.

Abstract Energy theft is

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a widespread problem results in loss to the utilities and affects the financial viability of utilities.

**Localization of  
Pilferage of Energy  
Using PLC Signals  
for ...**

A new member of the Cohen's class time-frequency distribution is proposed. The kernel function is determined adaptively based on the signal of interest.



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The kernel preserves the chirp-like components while removing interference terms generated due to the quadratic characteristic of Wigner-Ville distribution. This approach is based on the chirplet as an underlying model of biomedical signals.

**Approximating the  
Time-Frequency  
Representation of ...**

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Ship Signal Upb

This paper introduces the Energy Optimized Distributed Localization (EODL) method as a range-free localization protocol which is not affected by the sound velocity. In such a technique, the sensor nodes calculate their unknown positions by the geometric intersection of the beacon signals sent by the AUV.

**EODL: Energy**

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**Optimized  
Distributed  
Localization Method  
in ...**

CiteSeerX - Document  
Details (Isaac Council,  
Lee Giles, Pradeep  
Teregowda): A theory  
of frames that extend  
Gabor analysis by  
including chirping is  
discussed. The chirping  
parameter in these  
'time-frequency  
localization frames'  
depends on time  
and/or frequency shift

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parameters that can be adapted to analyze and detect chirps in noisy signals.

## **Analysis of Chirp Signals By Time-Frequency Localization ...**

user signals, and  $T$  is the symbol (bit) duration. The BER, for the  $k$ th user signal in anytype of BCSS signal set, is,  $P_b; k= 1 2N 1 2NX1 1 =0 Q 0 @ s (1 + \hat{T}_k b )2E_{sk} N 0 1 A$

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(1) where the  $Q$ -function is the tail integral of the zero-mean, unit variance Gaussian density function,  $E_s$  is the symbol (bit) energy and  $\mathbf{b}$  is a vector of size  $(N - 1) \dots$

**IEEE TRANSACTIONS  
ON  
COMMUNICATIONS**  
**Noncoherent  
Multiuser ...**

A chirp is a signal in which the frequency

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increases (up-chirp) or decreases (down-chirp) with time. In some

sources, the term chirp is used

interchangeably with sweep signal. It is

commonly applied to sonar, radar, and laser systems, and to other applications, such as in spread-spectrum communications.. In

spread-spectrum usage, surface acoustic wave (SAW) devices are often used to

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### **Chirp - Wikipedia**

3.1. Location Signal-  
Multilinear Chirp (MLC)  
Signal. Due to the  
match of MLC and  
underwater channel,  
the MLC is chosen as  
the location signal, and  
its time-frequency  
characteristic of  
location signals-MLC is  
shown as Figure 2,  
where is the duration  
time of location signal.  
Nodes are denoted by ,

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where the first nodes  
are with positive  
combined slopes and  
the second nodes are  
with negative ...

## **A TDoA Localization Scheme for Underwater Sensor Networks ...**

A theory of frames that  
extend Gabor analysis  
by including chirping is  
discussed. The chirping  
parameter in these  
'time-frequency  
localization frames'



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depends on time  
and/or frequency shift  
parameters that can be  
adapted to analyze and  
detect chirps in noisy  
signals.

**Analysis of chirp  
signals by time-  
frequency  
localization ...**

Abstract - While the  
chirp signal is  
extensively used in  
radar and sonar  
systems for target  
decision in ... has

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adopted the chirp spread spectrum (CSS) as an underlying technique for low-power and low-complexity precise localization. Chirp signal based ranging solutions ... combined energy of the chirp pulse over its entire duration.

**A Mitigation of Multipath Ranging Error Using Non-linear ...**

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## Localization In

Chirp signals have been extensively used in radar and sonar ... standard for real-time localization (RTLS) and used in a ... a compressed pulse containing the summed energy of the entire chirp signal. The maximum peak of the delay line time response indicates the time of arrival.

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