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this paper proposes the use of a lora like chirp spread spectrum physical layer as the basis for a new power line communication modulation scheme suited for low a chirp spread spectrum modulation scheme for robust power line communication ieee journals magazine ieee xplore

implementing prime for robust and reliable power line

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power line communication plc is a generic term for any technology that uses the power line as a communication channel as such plc actually comprises several standards focusing on different performance factors and issues relating to particular applications and operating environments

robust power line detection with particle filter based

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in this paper we present a robust detection with particle filter tracking algorithm to automatically detect power lines from the video captured by a 94 ghz millimeter wave radar the particle filter framework captures both the power line inherent features and the important temporal correlation feature

developing robust power line communications plc with g3

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introduction power line communications plc is a global technology with worldwide interest in its development in its simplest terms plc modulates communication signals over existing power lines this enables devices to be networked without introducing any new wires or cables

power line communication with robust timing and carrier

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power line communication plc is an important interconnection technology for the smart grid but the robustness of plc transmission is faced with a great challenge due to strong non gaussian noise and interference

robust optimization in power systems a tutorial overview

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1 robust optimization in power systems this section briefly describes robust optimization ro and adaptive robust optimization aro models that are relevant for power system operation and long term planning problems

a chirp spread spectrum modulation scheme for robust power

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chirp spread spectrum modulation scheme for robust power line communication stephen robson and manu haddad member ieee abstract this paper proposes the use of a lora like chirp spread spectrum physical layer as the basis for a new power line communication modulation scheme suited for low bandwidth communication

a robust and efficient method for power lines extraction from

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eine robuste und effiziente methode zur detektion von stromleitungen in punktwolken aus dem mobilen laserscanning Überwachung instandhaltung und management von frei hängenden stromleitungen sind von großer bedeutung da davon die versorgung der endverbraucher abhängt

a robust mimo power line communication system ieee

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power line communication plc is a promising technique for internet of things and weaponry because of its wide distribution and low cost however the plc channel is frequency selectivity time varying and various impulse noises in this context this paper designed a robust 2 2 mimo plc system

a chirp spread spectrum modulation scheme for robust power

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a chirp spread spectrum modulation scheme for robust power line communication this paper proposes the use of a lora like chirp spread spectrum physical layer as the basis for a new power line communication modulation scheme suited for low bandwidth communication

robust optimization in electric power

systems

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electric power systems acclaimed as the supreme engineering achievement of the 20th century are one of the most complex human made systems 9 as an example the u s power grid has approximately 170 000 miles of high voltage voltage at or above 200kv transmission lines and almost 5 000 generating units with capacity of at least 50mw

robust power line detection with particle filter based

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this work proposes a detection method that combines both characteristics of the amplitude and phase of the return radar signal and demonstrates that it is able to detect the power lines accurately efficiently and more robustly on a new two channel dataset expand highly influenced pdf 10 excerpts

introduction to robust reliable and high speed power line

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robust power line extraction from aerial image using object

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the extraction of power line from aerial image with complex background is an extremely difficult task in order to solve the drawbacks of low accuracy and insufficient stability of extraction algorithms a novel object based gaussian markov random field with gravity property parameters ogmrf gpp method is proposed

robust h control for line power flow tracking in power

Feb 07 2023

we consider a robust h power flow tracking control strategy to regulate the line power flows to the specified limit while attenuating the effect of disturbances on the system using synchrophasor measurements from the lines the proposed controller can detect line overloading and automatically re dispatch the selected generators and

current state of communication systems based on electrical

Jan 06 2023

power line communication technology is a retrofit alternative technology for last mile information technology despite several challenges such as inadequate standards and electromagnetic compatibility it is maturing in this review we have analysed these obstacles and its current application status introduction

robust real time uav based power line detection and tracking

Dec 05 2022

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1 author f bastani published in international conference on 3 august 2016
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for industry 4 0 reliability builds on robust connections

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looking to relieve increasing product complexity and cost pressures
manufacturers are moving toward the next phase of industrial
automation envisioned in industry 4 0

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power line inspection is an essential but costly task while automated uav
unmanned aerial vehicle inspection can greatly reduce such costs
however navigatin robust real time uav based power line detection and
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a fast robust algorithm for power line interference

Sep 02 2022

in this paper we present a robust and computationally efficient algorithm
for removing power line interference from neural recordings approach
the algorithm includes four steps first an adaptive notch filter is used to
estimate the fundamental frequency of the interference

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