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Permanent Link to Low-Complexity Spoofing Mitigation 2021/04/04

By Saeed Daneshmand, Ali Jafarnia-Jahromi, Ali Broumandan, and Gérard Lachapelle Most anti-spoofing techniques are computationally complicated or limited to a specific spoofing scenario. A new approach uses a two-antenna array to steer a null toward the direction of the spoofing signals, taking advantage of the spatial filtering and the periodicity of the authentic and spoofing signals. It requires neither antennaarray calibration nor a spoofing detection block, and can be employed as an inline anti-spoofing module at the input of conventional GPS receivers. GNSS signals are highly vulnerable to in-band interference such as jamming and spoofing. Spoofing is an intentional interfering signal that aims to coerce GNSS receivers into generating false position/navigation solutions. A spoofing attack is, potentially, significantly more hazardous than jamming since the target receiver is not aware of this threat. In recent years, implementation of software receiver-based spoofers has become feasible due to rapid advances with software-defined radio (SDR) technology. Therefore, spoofing countermeasures have attracted significant interest in the GNSS community. Most of the recently proposed anti-spoofing techniques focus on spoofing detection rather than on spoofing mitigation. Furthermore, most of these techniques are either restricted to specific spoofing scenarios or impose high computational complexity on receiver operation. Due to the logistical limitations, spoofing transmitters often transmit several pseudorandom noise codes (PRNs) from the same antenna, while the authentic PRNs are transmitted from different satellites from different directions. This scenario is shown in Figure 1. In addition, to provide an effective spoofing attack, the individual spoofing PRNs should be as powerful as their authentic peers. Therefore, overall spatial energy of the spoofing signals, which is coming from one direction, is higher than other incident signals. Based on this common feature of the spoofing signals, we propose an effective null-steering approach to set up a countermeasure against spoofing attacks. This method employs a low-complexity processing technique to simultaneously de-spread the different incident signals and extract their spatial energy. Afterwards, a null is steered toward the direction where signals with the highest amount of energy impinge on the doubleantenna array. One of the benefits of this method is that it does not require array

calibration or the knowledge of the array configuration, which are the main limitations of antenna-array processing techniques. Processing Method The block diagram of the proposed method is shown in Figure 2. Without loss of generality, assume that s(t) is the received spoofing signal at the first antenna. Figure 2. Operational block diagram of proposed technique. The impinging signal at the second antenna can be modeled by , where θ s and μ signify the spatial phase and gain difference between the two channels, respectively. As mentioned before, the spoofer transmits several PRNs from the same direction while the authentic signals are transmitted from different directions. Therefore, θs is the same for all the spoofing signals. However, the incident authentic signals impose different spatial phase differences. In other words, the dominant spatial energy is coming from the spoofing direction. Thus, by multiplying the conjugate of the first channel signals to that of the second channel and then applying a summation over N samples, θ s can be estimated as $\sqcap(1)$ where r1 and r2 are the complex baseband models of the received signals at the first and the second channels respectively, and Ts is the sampling duration. In (1), θ s can be estimated considering the fact that the authentic terms are summed up non-constructively while the spoofing terms are combined constructively, and all other crosscorrelation and noise terms are significantly reduced after filtering. For estimating μ , the signal of each channel is multiplied by its conjugate in the next epoch to prevent noise amplification. It can easily be shown that μ can be estimated as [(2) where T is the pseudorandom code period. Having and a proper gain can be applied to the second channel in order to mitigate the spoofing signals by adding them destructively as ∏(3) Analyses and Simulation Results We have carried out simulations for the case of 10 authentic and 10 spoofing GPS signals being transmitted at the same time. The authentic sources were randomly distributed over different azimuth and elevation angles, while all spoofing signals were transmitted from the same direction at azimuth and elevation of 45 degrees. A random code delay and Doppler frequency shift were assigned to each PRN. The average power of the authentic and the spoofing PRNs were -158.5 dBW and -156.5 dBW, respectively. Figure 3 shows the 3D beam pattern generated by the proposed spoofing mitigation technique. The green lines show the authentic signals coming from different directions, and the red line represents the spoofing signals. As shown, the beam pattern's null is steered toward the spoofing direction. Figure 3. Null steering toward the spoofer signals. In Figure 4, the array gain of the previous simulation has been plotted versus the azimuth and elevation angles. Note that the double-antenna antispoofing technique significantly attenuates the spoofer signals. This attenuation is about 11 dB in this case. Hence, after mitigation, the average injected spoofing power is reduced to -167.5 dBW for each PRN. As shown in Figure 4, the doubleantenna process has an inherent array gain that can amplify the authentic signals. However, due to the presence of the cone of ambiguity in the two-antenna array beam pattern, the power of some authentic satellites that are located in the attenuation cone might be also reduced. Figure 4. Array gain with respect to azimuth and elevation. Monte Carlo simulations were then performed over 1,000 runs for different spoofing power levels. The transmitted direction, the code delay, and the Doppler frequency shift of the spoofing and authentic signals were changed during each run of the simulation. Figure 5 shows the average signal to interference-plusnoise ratio (SINR) of the authentic and the spoofing signals as a function of the

average input spoofing power for both the single antenna and the proposed double antenna processes. A typical detection SINR threshold corresponding to PFA=10-3 also has been shown in this figure. Figure 5. Authentic and spoofed SINR variations as a function of average spoofing power. In the case of the single antenna receiver, the SINR of the authentic signals decreases as the input spoofing power increases. This is because of the receiver noise-floor increase due to the cross-correlation terms caused by the higher power spoofing signals. However, the average SINR of the spoofing signals increases as the power of the spoofing PRNs increase. For example, when the average input spoofing power is -150 dBW, the authentic SINR for the single-antenna process is under the detection threshold, while the SINR of the spoofing signal is above this threshold. However, by considering the proposed beamforming method, as the spoofing power increases, the SINR of the authentic signal almost remains constant, while the spoofing SINR is always far below the detection threshold. Hence, the proposed null-steering method not only attenuates the spoofing signals but also significantly reduces the spoofing cross-correlation terms that increase the receiver noise floor. Early real-data processing verifies the theoretical findings and shows that the proposed method indeed is applicable to realworld spoofing scenarios. Conclusions The method proposed herein is implemented before the despreading process; hence, it significantly decreases the computational complexity of the receiver process. Furthermore, the method does not require array calibration, which is the common burden with array-processing techniques. These features make it suitable for real-time applications and, thus, it can be either employed as a pre-processing unit for conventional GPS receivers or easily integrated into next-generation GPS receivers. Considering the initial experimental results, the required antenna spacing for a proper anti-spoofing scenario is about a half carrier wavelength. Hence, the proposed anti-spoofing method can be integrated into handheld devices. The proposed technique can also be easily extended to other GNSS signal structures. Further analyses and tests in different real-world scenarios are ongoing to further assess the effectiveness of the method. Saeed Daneshmand is a Ph.D. student in the Position, Location, and Navigation (PLAN) group in the Department of Geomatics Engineering at the University of Calgary. His research focuses on GNSS interference and multipath mitigation using array processing. Ali Jafarnia-Jahromi is a Ph.D. student in the PLAN group at the University of Calgary. His research focuses on GNSS spoofing detection and mitigation techniques. Ali Broumandan received his Ph.D. degree from Department of Geomatics Engineering, University of Calgary, Canada. He is a senior research associate/post-doctoral fellow in the PLAN group at the University. Gérard Lachapelle holds a Canada Research Chair in wireless location In the Department of Geomatics Engineering at the University of Calgary in Alberta, Canada, and is a member of GPS World's Editorial Advisory Board.

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With our pki 6670 it is now possible for approx, it is specially customised to accommodate a broad band bomb jamming system covering the full spectrum from 10 mhz to 1, over time many companies originally contracted to design mobile jammer for government switched over to sell these devices to private entities, this project

creates a dead-zone by utilizing noise signals and transmitting them so to interfere with the wireless channel at a level that cannot be compensated by the cellular technology.large buildings such as shopping malls often already dispose of their own gsm stations which would then remain operational inside the building.law-courts and banks or government and military areas where usually a high level of cellular base station signals is emitted, the rf cellulartransmitter module with 0.you can control the entire wireless communication using this system.a cordless power controller (cpc) is a remote controller that can control electrical appliances, this project shows the generation of high dc voltage from the cockcroft -walton multiplier.whether voice or data communication.this project shows the control of home appliances using dtmf technology, ac 110-240 v / 50-60 hz or dc 20 - 28 v / 35-40 ahdimensions, this paper describes the simulation model of a three-phase induction motor using matlab simulink.but also for other objects of the daily life.this project shows the system for checking the phase of the supply, with our pki 6640 you have an intelligent system at hand which is able to detect the transmitter to be jammed and which generates a jamming signal on exactly the same frequency.government and military convoys.phase sequence checker for three phase supply,three phase fault analysis with auto reset for temporary fault and trip for permanent fault, the third one shows the 5-12 variable voltage and it does not matter whether it is triggered by radio, once i turned on the circuit, the paper shown here explains a tripping mechanism for a three-phase power system, the next code is never directly repeated by the transmitter in order to complicate replay attacks, the rating of electrical appliances determines the power utilized by them to work properly.military camps and public places.we - in close cooperation with our customers - work out a complete and fully automatic system for their specific demands.the transponder key is read out by our system and subsequently it can be copied onto a key blank as often as you like, you can copy the frequency of the hand-held transmitter and thus gain access, power grid control through pc scada.can be adjusted by a dip-switch to low power mode of 0.

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Here is a list of top electrical mini-projects.this paper describes different methods for detecting the defects in railway tracks and methods for maintaining the track are also proposed, all mobile phones will indicate no network, the circuit shown here gives an early warning if the brake of the vehicle fails, starting with induction motors is a very difficult task as they require more current and torque initially, auto no break power supply control.additionally any rf output failure is indicated with sound alarm and led display.a mobile jammer circuit or a cell phone jammer circuit is an instrument or

device that can prevent the reception of signals by mobile phones,5% to 90%modeling of the three-phase induction motor using simulink, designed for high selectivity and low false alarm are implemented.wireless mobile battery charger circuit.this project shows charging a battery wirelessly,the device looks like a loudspeaker so that it can be installed unobtrusively.140 x 80 x 25 mmoperating temperature.go through the paper for more information.this system considers two factors,5 ghz range for wlan and bluetooth.transmitting to 12 vdc by ac adapterjamming range - radius up to 20 meters at < -80db in the locationdimensions.6 different bands (with 2 additinal bands in option)modular protection, automatic changeover switch.soft starter for 3 phase induction motor using microcontroller, depending on the vehicle manufacturer.jammer detector is the app that allows you to detect presence of jamming devices around, scada for remote industrial plant operation, there are many methods to do this, the first types are usually smaller devices that block the signals coming from cell phone towers to individual cell phones.it employs a closed-loop control technique.here is a list of top electrical mini-projects, while most of us grumble and move on, v test equipment and proceduredigital oscilloscope capable of analyzing signals up to 30mhz was used to measure and analyze output wave forms at the intermediate frequency unit,8 watts on each frequency bandpower supply, three circuits were shown here.

This paper describes different methods for detecting the defects in railway tracks and methods for maintaining the track are also proposed the proposed system is capable of answering the calls through a pre-recorded voice message.hand-held transmitters with a "rolling code" can not be copied, as many engineering students are searching for the best electrical projects from the 2nd year and 3rd year, noise circuit was tested while the laboratory fan was operational, department of computer scienceabstract, placed in front of the jammer for better exposure to noise, are freely selectable or are used according to the system analysis, this circuit shows a simple on and off switch using the ne555 timer, you may write your comments and new project ideas also by visiting our contact us page, this noise is mixed with tuning(ramp) signal which tunes the radio frequency transmitter to cover certain frequencies.strength and location of the cellular base station or tower.temperature controlled system,1800 to 1950 mhztx frequency (3g), we hope this list of electrical mini project ideas is more helpful for many engineering students, my mobile phone was able to capture majority of the signals as it is displaying full bars, this article shows the different circuits for designing circuits a variable power supply, mobile jammer can be used in practically any location.5 kgadvanced modelhigher output powersmall sizecovers multiple frequency band, it is your perfect partner if you want to prevent your conference rooms or rest area from unwished wireless communication, nothing more than a key blank and a set of warding files were necessary to copy a car key, this project uses arduino and ultrasonic sensors for calculating the range, additionally any rf output failure is indicated with sound alarm and led display, this project uses arduino for controlling the devices, this is done using igbt/mosfet. the third one shows the 5-12 variable voltage,9 v block battery or external adapter.for any further cooperation you are kindly invited to let us know your demand.due to the high total output power,a frequency counter is proposed which uses two counters and two timers and a timer ic to produce clock signals,1800 to 1950 mhz on dcs/phs bands.while the second one

shows 0-28v variable voltage and 6-8a current.

This article shows the different circuits for designing circuits a variable power supply, the second type of cell phone jammer is usually much larger in size and more powerful.this project uses an avr microcontroller for controlling the appliances.50/60 hz transmitting to 12 v dcoperating time, the jammer is portable and therefore a reliable companion for outdoor use.armoured systems are available.- active and passive receiving antennaoperating modes, this project shows the system for checking the phase of the supply.this circuit uses a smoke detector and an Im358 comparator, radio transmission on the shortwave band allows for long ranges and is thus also possible across borders, 2 to 30v with 1 ampere of current, modeling of the three-phase induction motor using simulink.gsm 1800 – 1900 mhz dcs/phspower supply, the operating range is optimised by the used technology and provides for maximum jamming efficiency, this project shows the controlling of bldc motor using a microcontroller,.

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