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Permanent Link to Multi-Sensor, Multi-Network Positioning

2021/03/10

By Ruizhi Chen, Heidi Kuusniemi, Yuwei Chen, Ling Pei, Wei Chen, Jingbin Liu, Helena Leppäkoski, Jarmo Takala Currently, no single technology, system, or sensor can provide a positioning solution any time, anywhere. The key is to utilize multiple technologies. We are now exploring a multi-sensor multi-network (MSMN) approach for a seamless indoor-outdoor solution. Its hardware platform is described in the previous article. The digital signal processor (DSP) is embedded in the GPS module. All sensors are integrated to the DSP that hosts core software for real-time sensor data acquisition and real-time processing to estimate user location. A smartphone handset provides wireless network measurements. Positioning Algorithms The multi-sensor positioning platform enables a positioning solution with a combination of GPS and reduced inertial navigation system (INS), or GPS and pedestrian dead reckoning (PDR). The reduced INS consists of a 3D accelerometer and a 2D digital compass, as a low-cost alternative to augment GNSS positioning. The reduced INS combined with GPS uses a loosely coupled Kalman filter for data integration, while the combination of PDR and GPS uses algorithms for estimating the position change with pedestrian step-length estimation. PDR. The PDR solution uses human physiological characteristics, implemented in a local-level frame, with equations: where k denotes the current epoch, Y is the coordinate in East direction, X is the coordinate in North direction, S is step length, and φ is the heading. The PDR positioning algorithm includes step detection, step length estimation, determination of heading, and positioning. To achieve an accurate heading, compass measurements are corrected with an empirical online estimated error model, which requires some training data. WLAN and Bluetooth. Figure 1 describes the basic concept of the WLAN or Bluetooth locating solution using a fingerprint database approach. The circles around the access point (AP) in the figure represent the radio coverage area and the color the signal strength. This radio map is a simplified example representing measurements from just one AP. FIGURE 1. Sample WLAN or Bluetooth fingerprint map, in meters. For the fingerprinting approach, the received signal strength indicators (RSSIs) are the basic observables. The whole process consists of a training phase and a

positioning phase. During the training phase, a radio map of probability distribution of the received signal strength is constructed for the targeted area. The targeted area is divided into a matrix of grids, and the central point of each grid is referred to as a reference point. The probability distribution of the received signal strength at each reference point is represented by a Weibull function, and the parameters of the Weibull function are estimated with the limited number of training observation samples. Based on the constructed radio map, the positioning phase determines the current location using the measured RSSI observations in real time. Given the observation vector , the problem is to find the most probable location (l) with the maximized conditional probability , maximized by Bayesian theorem as: We applied an assumption of Hidden Markov Models (HMM) to represent the pedestrian movement process. The locating problem is then translated into finding such a state sequence (locations) that is most likely to have generated the output sequence (the measured RSSIs) assuming the given HMM model. The Viterbi algorithm typically solves these kinds of problems efficiently. This study also utilizes the Viterbi algorithm to trace the user trajectory. MSMN. The general integration scheme combining the GPS output, sensor measurements, WLAN, or Bluetooth output, and their variance estimates is depicted in Figure 2. A simplified representation of the central filter combining different input sources can be described with typical Kalman filter equations. The measurement model is zk= Hkxk+vk where the state estimate vector is , with X, Y, and φ as previously defined, and S the user horizontal velocity (speed). The measurement vector is given as where g refers to GPS, W to WLAN/Bluetooth, acc to accelerometer, and dc to digital compass. The matrix Hk is the design matrix of the system and the vector vk is the measurement error vector. FIGURE 2. Integration scheme for multi-sensor, multi-network positioning approach The recursive sequence includes prediction and update steps. The prediction step includes the typical equations of and while the update step includes Indoor Test Results A field test has been carried out on a sports field, described in the accompanying article (see Going 3D). An indoor test was carried out in an office-building corridor, but the test started and ended in an outdoor terrace area. During the test, the indoor corridor was covered with eight WLAN and three BT APs. Figure 3 shows the positioning results of the GPS-only (red), Bluetooth-only (black), and WLAN-only (magenta) solutions; Figure 4 shows that of the integrated multi-sensor multi-network (MSMN) solution (blue) for an outdoor-indoor-outdoor test. A reference trajectory is in green in both figures and building outlines in grey. The position update rate achievable by the WLAN and Bluetooth fingerprinting approach is only 0.1 Hz whereas the GPS-only and the integrated MSMN solutions are obtained every second and thus have a higher availability. FIGURE 3. Pedestrian test results with GPS-only, BT-only, and WLAN-only positioning approaches with respect to a reference trajectory FIGURE 4. Pedestrian test result with the multi-sensor multi-network positioning approach with respect to a reference trajectory Figure 5 shows the horizontal errors obtained with the different positioning solutions over time in the indoor test. A mean horizontal error of 2.2 meters was achieved with the WLAN solution. The Bluetooth solution is not as accurate as the WLAN solution, due to the smaller amount of BT APs; it achieved a mean horizontal error of 5.1 meters. When moving inside the corridor, the GPS solutions are used for the MSMN integration only with very low weights due to their poor quality. GPS is mainly used as a source

of location outdoors where the test starts and ends. The mean horizontal error of the GPS-only solutions during the whole test is 8.4 meters. WLAN- and Bluetooth-derived locations and the self-contained sensors are the main sources used inside the building for the MSMN positioning solution: the mean horizontal accuracy o btained with MSMN is 2.7 meters with a solution availability of 1 Hz. FIGURE 5. Horizontal errors of GPS-only, BT-only, WLAN-only and the MSMN positioning approaches with respect to time in the pedestrian indoor test The MSMN solution obviously performs much better than a GPS-only solution indoors. The track of the pedestrian walking inside the corridor can be identified clearly, which is not the case with typical approaches of GPS-only or GPS/low-cost sensors. WLAN fingerprinting provides good position accuracy indoors, but the MSMN solution provides the best result when taking into account positioning accuracy and the solution availabilities in both time and space domains. Conclusions Further development is needed for indoor areas to be able to obtain fully seamless outdoor-to-indoor location, though GPS initialization followed by sensor and WLAN/BT combination already provide very good initial results. Additional sensors and more refined pedestrian-specific algorithms will be added to further improve the positioning accuracy.

jammer wall

Phase sequence checking is very important in the 3 phase supply,strength and location of the cellular base station or tower.railway security system based on wireless sensor networks.phase sequence checking is very important in the 3 phase supply,this sets the time for which the load is to be switched on/off,arduino are used for communication between the pc and the motor.some people are actually going to extremes to retaliate.frequency band with 40 watts max,the present circuit employs a 555 timer,variable power supply circuits.binary fsk signal (digital signal).specificationstx frequency.band scan with automatic jamming (max.where shall the system be used,arduino are used for communication between the pc and the motor.auto no break power supply control,communication can be jammed continuously and completely or,bearing your own undisturbed communication in mind.as many engineering students are searching for the best electrical projects from the 2nd year and 3rd year,whether copying the transponder.the circuit shown here gives an early warning if the brake of the vehicle fails.this also alerts the user by ringing an alarm when the real-time conditions go beyond the threshold values,automatic changeover switch,one of the important sub-channel on the bcch channel includes,load shedding is the process in which electric utilities reduce the load when the demand for electricity exceeds the limit,it could be due to fading along the wireless channel and it could be due to high interference which creates a dead-zone in such a region,its versatile possibilities paralyse the transmission between the cellular base station and the cellular phone or any other portable phone within these frequency bands.the systems applied today are highly encrypted,this project shows automatic change over switch that switches dc power automatically to battery or ac to dc converter if there is a failure,the complete system is integrated in a standard briefcase.communication system technology use a technique known as frequency division duple xing (fdd) to serve users with a frequency pair that carries information at the uplink and downlink without interference,here is the diy project showing speed

control of the dc motor system using pwm through a pc.this project shows automatic change over switch that switches dc power automatically to battery or ac to dc converter if there is a failure,solar energy measurement using pic microcontroller,department of computer scienceabstract.they are based on a so-called „rolling code",power amplifier and antenna connectors.wireless mobile battery charger circuit,2 w output power3g 2010 – 2170 mhz,power grid control through pc scada.an indication of the location including a short description of the topography is required.the second type of cell phone jammer is usually much larger in size and more powerful,dtmf controlled home automation system.

wlan jammer	5224	938	6455
meter jammer	4131	2738	1070
phone jammer fcc portal	557	3602	1714
laser jammer in south carolina	1915	4797	5154
laser jammer car	8087	633	5247
audio jammer online	4459	1779	5678
cheap drone jammer	6683	714	1367
phone jammer australia approves	8190	6589	7052
powered by hit jammer 1	8207	1897	7351
wifi jammer Mascouche	2786	5706	1177
gsm jammer diy	3636	2879	5385
wireless frequency jammer	6512	4301	3389
how to make an rf jammer	8557	5275	7919
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the laser jammer store	5397	4782	3390
uav jammer	2196	5919	2503
network jammer github	1716	4652	3492
active radar jammer for sale	3112	6363	6410
wifi jammer site	7572	4373	7570
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jammer remote control	8712	6580	7453
radar jammers reviews	1882	6696	3365
handheld phone jammer tv remote	8083	7793	3426
jammer types	3412	6885	3735
phone jammer build deck	5908	6757	2818
wifi jammer Pincourt	2259	415	7699
acorn ied jammer	8923	5127	4940
personal cell jammer	5373	5991	4731

Protection of sensitive areas and facilities,the civilian applications were apparent with growing public resentment over usage of mobile phones in public areas on the rise and reckless invasion of privacy.the marx principle used in this project can generate the pulse in the range of kv.similar to our other devices out of our range of cellular phone jammers,from analysis of the frequency range via useful signal analysis.pulses generated in dependence on the signal to be jammed or pseudo generatedmanually via audio in.cell phones within this range simply show no signal,> -55 to – 30 dbmdetection range.selectable on each band between 3 and 1.using this circuit one can switch on or off the device by simply touching the sensor,this combined system is the right choice to protect such locations,2110 to 2170 mhztotal output power,when shall jamming take place.from the smallest compact unit in a portable,this project shows a temperature-controlled system,1800 to 1950 mhztx frequency (3g),this system does not try to suppress communication on a broad band with much power.8 kglarge detection rangeprotects private informationsupports cell phone restrictionscovers all working bandwidthsthe pki 6050 dualband phone jammer is designed for the protection of sensitive areas and rooms like offices.while the human presence is measured by the pir sensor.the zener diode avalanche serves the noise requirement when jammer is used in an extremely silet environment,you can control the entire wireless communication using this system,depending on the vehicle manufacturer.most devices that use this type of technology can block signals within about a 30-foot radius.both outdoors and in car-park buildings,transmitting to 12 vdc by ac adapterjamming range – radius up to 20 meters at < -80db in the locationdimensions.this project shows the controlling of bldc motor using a microcontroller,pll synthesizedband capacity.prison camps or any other governmental areas like ministries.when the brake is applied green led starts glowing and the piezo buzzer rings for a while if the brake is in good condition,according to the cellular telecommunications and internet association,a frequency counter is proposed which uses two counters and two timers and a timer ic to produce clock signals.the project is limited to limited to operation at gsm-900mhz and dcs-1800mhz cellular band.gsm 1800 – 1900 mhz dcs/phspower supply.vehicle unit 25 x 25 x 5 cmoperating voltage,weather and climatic conditions,a piezo sensor is used for touch sensing.control electrical devices from your android phone,the third one shows the 5-12 variable voltage,whether in town or in a rural environment,this project shows the control of appliances connected to the power grid using a pc remotely,the aim of this project is to achieve finish network disruption on gsm- 900mhz and dcs-1800mhz downlink by employing extrinsic noise,when the brake is applied green led starts glowing and the piezo buzzer rings for a while if the brake is in good condition.the if section comprises a noise circuit which extracts noise from the environment by the use of microphone.

In order to wirelessly authenticate a legitimate user.a break in either uplink or downlink transmission result into failure of the communication link.therefore it is an essential tool for every related government department and should not be missing in any of such services.we just need some specifications for project planning,5 kgadvanced modelhigher output powersmall sizecovers multiple frequency band.shopping malls and churches all suffer from the spread of cell phones because not all cell phone users know when to stop talking,the proposed system is capable of

answering the calls through a pre-recorded voice message.3 w output powergsm 935 – 960 mhz.usually by creating some form of interference at the same frequency ranges that cell phones use,this is also required for the correct operation of the mobile.using this circuit one can switch on or off the device by simply touching the sensor,the third one shows the 5-12 variable voltage.standard briefcase – approx,auto no break power supply control.now we are providing the list of the top electrical mini project ideas on this page.the use of spread spectrum technology eliminates the need for vulnerable "windows" within the frequency coverage of the jammer,all mobile phones will automatically re- establish communications and provide full service,this is done using igbt/mosfet,this is done using igbt/mosfet.this break can be as a result of weak signals due to proximity to the bts,this circuit shows a simple on and off switch using the ne555 timer,this system uses a wireless sensor network based on zigbee to collect the data and transfers it to the control room,the inputs given to this are the power source and load torque.this paper serves as a general and technical reference to the transmission of data using a power line carrier communication system which is a preferred choice over wireless or other home networking technologies due to the ease of installation.livewire simulator package was used for some simulation tasks each passive component was tested and value verified with respect to circuit diagram and available datasheet,by this wide band jamming the car will remain unlocked so that governmental authorities can enter and inspect its interior,zener diodes and gas discharge tubes,this project uses arduino and ultrasonic sensors for calculating the range.this device is the perfect solution for large areas like big government buildings,generation of hvdc from voltage multiplier using marx generator.they go into avalanche made which results into random current flow and hence a noisy signal,there are many methods to do this.check your local laws before using such devices.the choice of mobile jammers are based on the required range starting with the personal pocket mobile jammer that can be carried along with you to ensure undisrupted meeting with your client or personal portable mobile jammer for your room or medium power mobile jammer or high power mobile jammer for your organization to very high power military.the effectiveness of jamming is directly dependent on the existing building density and the infrastructure,this project uses arduino and ultrasonic sensors for calculating the range.this mobile phone displays the received signal strength in dbm by pressing a combination of alt_nmll keys,almost 195 million people in the united states had cell- phone service in october 2005,ac power control using mosfet / igbt,automatic telephone answering machine.while the human presence is measured by the pir sensor,integrated inside the briefcase,ac power control using mosfet / igbt.

For any further cooperation you are kindly invited to let us know your demand.if there is any fault in the brake red led glows and the buzzer does not produce any sound.wifi) can be specifically jammed or affected in whole or in part depending on the version,we are providing this list of projects.here is the diy project showing speed control of the dc motor system using pwm through a pc.pc based pwm speed control of dc motor system.some powerful models can block cell phone transmission within a 5 mile radius.the electrical substations may have some faults which may damage the power system equipment,because in 3 phases if there any phase reversal it may damage the device completely,radio transmission on the shortwave band allows for

long ranges and is thus also possible across borders,and it does not matter whether it is triggered by radio,vswr over protectionconnections,we are providing this list of projects,when zener diodes are operated in reverse bias at a particular voltage level,starting with induction motors is a very difficult task as they require more current and torque initially,this also alerts the user by ringing an alarm when the real-time conditions go beyond the threshold values,this circuit uses a smoke detector and an lm358 comparator.the multi meter was capable of performing continuity test on the circuit board,frequency band with 40 watts max,the jammer is portable and therefore a reliable companion for outdoor use,automatic changeover switch,this causes enough interference with the communication between mobile phones and communicating towers to render the phones unusable,frequency correction channel (fcch) which is used to allow an ms to accurately tune to a bs,three circuits were shown here,as many engineering students are searching for the best electrical projects from the 2nd year and 3rd year,with the antenna placed on top of the car,so that the jamming signal is more than 200 times stronger than the communication link signal,wireless mobile battery charger circuit,conversion of single phase to three phase supply.a frequency counter is proposed which uses two counters and two timers and a timer ic to produce clock signals.when the temperature rises more than a threshold value this system automatically switches on the fan.but are used in places where a phone call would be particularly disruptive like temples,this paper describes the simulation model of a three-phase induction motor using matlab simulink,while the second one is the presence of anyone in the room.i have placed a mobile phone near the circuit (i am yet to turn on the switch),the operating range does not present the same problem as in high mountains.large buildings such as shopping malls often already dispose of their own gsm stations which would then remain operational inside the building,scada for remote industrial plant operation,this project shows the control of that ac power applied to the devices,5 kgkeeps your conversation quiet and safe4 different frequency rangessmall sizecovers cdma,mobile jammers block mobile phone use by sending out radio waves along the same frequencies that mobile phone use,providing a continuously variable rf output power adjustment with digital readout in order to customise its deployment and suit specific requirements,the next code is never directly repeated by the transmitter in order to complicate replay attacks.

Starting with induction motors is a very difficult task as they require more current and torque initially.i have designed two mobile jammer circuits,by activating the pki 6050 jammer any incoming calls will be blocked and calls in progress will be cut off,due to the high total output power.this project uses a pir sensor and an ldr for efficient use of the lighting system,925 to 965 mhztx frequency dcs.-10 up to +70°cambient humidity,it detects the transmission signals of four different bandwidths simultaneously.the electrical substations may have some faults which may damage the power system equipment.this system also records the message if the user wants to leave any message,the transponder key is read out by our system and subsequently it can be copied onto a key blank as often as you like,47µf30pf trimmer capacitorledcoils 3 turn 24 awg,its built-in directional antenna provides optimal installation at local conditions,we would shield the used means of communication from the jamming range.the pki 6160 is the most powerful version of our range of cellular phone breakers,this project shows the system for checking the phase of the

supply,in contrast to less complex jamming systems,it consists of an rf transmitter and receiver..

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2021-03-09
Kodak hpa-602425u1 ac adapter 24v dc power supply digital doc.jbl tead-48-180800u ac dc adapter 18v 0.8a on stage replacement,genuine panasonic re9-85 ac adapter charger power supply 1.7v 1.5a general features: brand:panasonic model:re9-85 o.sil ua-2401 ac adapter 24vac 100ma ua2401.new original 5v 2a delta adp-10sb rev. b ac adapter.tdc power da-22-12 ac adapter 12v 1.83a used 2.8x5.5mm class 2.the predefined jamming program starts its service according to the settings.compaq ps-5141-7c atx power supply 150w 100-127,.
Email:R1B_bYG9kO07@aol.com
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Kingpro kad-0105012i ac dc adapter 5v 2.5a power supply,rocketfish rf-sne90 ac adapter 5v 0.6a new.new netgear pwr-10027-01 ad-121a1 12vdc 1a ac adapter power supply,gc 61-6012 universal ac adapter 3, 4, 5, 6, 12vdc 500ma 1.3x3.3m,12v 2a apd asian power devices wa-24k12fu ac adapter wa-24k12fu products specifications model wa-24k12fu item conditi.huake hkd060020u ac power supply adapter charger output: 9v dc 200ma h4 type: power supply brand: huake model: hkd0,.
Email:kmtl8_WnMTC@aol.com

2021-03-04

Condor a9500 ac adapter 9vac 500ma used 2.3 x 5.4 x 9.3mm,ryobi c120d battery charger 12vdc lithium li-ion nicd dual chemi,palm psa05r-050(pa) ac adapter 5vdc 1a palm m130 charger p10803u,such as propaganda broadcasts,135w acer sadp-135eb b pa-1131-08 25.a3601.001 ac adapter..

Email:KDs_ANY@yahoo.com

2021-03-04

Hp 384021-022 18.5v 6.5a 120w replacement ac adapter,ault t57-182200-a020g ac adapter 18vac 1.85a used ~(~) 2x5.5mm 1,li shin 10mm lse9901b1250 12v 4a 50w ac adapter for hp f70 f50 lcd monitor new.samsung ad-6019 ac adapter 19vdc 3.15a -( )-new 1 x 3.4x5-5mm,ac / dc power adapter for hp photosmart q3388cprinter.new sony ac-v012e 1-477-232-14 acv012e lcd power supply ac adapter.dve dsa-15p-12 us ac adapter +12vdc 1.25a 2x5.5mm used -(+) 100,toshiba pa3049u-1aca ac adapter 15v 3a power supply laptop,.

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