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Permanent Link to 5G, cellular's next step, brings new positioning capabilities
2021/04/28

This comment piqued my ears when heard over the coffee-break table at ION's International Technical Meeting last month: "There is a great deal of mutual ignorance between the 5G and PNT communities. I think that the 5G people are pretty naive about PNT and the PNT community is missing an opportunity." So when news releases leading up to next week's Mobile World Congress — several of them mentioning 5G in rosy terms, "catalyst for a better future" typical among these — started flooding my inbox this morning, it seemed an opportune time to investigate. Pardon my top-slice view; I'm not well-versed enough in the technology to discourse knowledgeably, but here's quick round-up of salient points related to positioning in the fast-oncoming Next Step in cellular communications. Regular contributing editor for Professional OEM and UAV Tony Murfin will return to this space next month, with a column previewing the massive AUVSI Xponential show in Denver, April 30-May 3. He'll be there, too, covering the event! The cellular 5G standard has been designed to target latencies under one millisecond, data rates of up to ten gigabits per second, extremely high network reliability, and better accuracy in positioning. With location awareness becoming an essential feature of many new markets, positioning is consequently considered as an integral part of the system design of upcoming 5G mobile networks. Its feet firmly planted in both the present and the future, the cellular industry is currently in the midst of implementation of Long Term Evolution (LTE)-Advanced, an evolution of what might be called plain old LTE, and a "true 4G" mobile broadband. Simultaneously, the industry is preparing the next step, as "there is a vastly increased need for a new mobile communications system with even further enhanced capabilities, namely a fifth generation (5G) system." 5G will process communication 10 times faster than 4G, according to experts. That's enough to download a 3D movie in 30 seconds. It would take six minutes on 4G. Pyeongchang Alert techie viewers of the present ongoing Olympics in South Korea may have noted 5G in action there, in demos of such things as live-streaming virtual reality of bobsled and luge runs, putting the viewer in the breathtaking driver's seat, and a test drive earlier this month from Seoul to Pyeongchang, a journey of several hours, without any human intervention whatsoever at the car's controls. The demonstrations in

Pyeongchang are laying down a backbone for what will be on show at the Tokyo Games in 2020, when 5G roll-out will be complete in many major metro areas. As trumpets sound the fanfare for next week's Mobile World Congress in Barcelona, AT&T announced it will first roll out 5G to three locations: Dallas, Texas; Waco, Texas; and Atlanta, Georgia. The plans introduce the service to about a dozen U.S. markets by late this year. Qualcomm meanwhile is offering insight into its 5G chips. What has all this got to do with GNSS? Well, aside from the aforementioned precise positioning via cellular to be afforded by 5G, the two technologies share one prominent technique: adaptive array antennas for digital beam-forming. Here I am indebted to Gary McGraw of Rockwell Collins for a primer on the subject, which he presented at the International Technical Symposium on Navigation and Timing (ITSNT) in November 2016. Adaptive array technologies have many advantages for PNT: primarily, in mitigation for multipath and for jamming and spoofing mitigation. Adaptive antenna arrays with digital beam-forming (DBF) are becoming increasingly important for PNT in challenging signal environments. DBF combines multiple antenna inputs to generate gain in arrival direction of the desired satellite signal and to create spatial nulls in direction of jamming. Langley Strikes Again — Early For some of the technical underpinnings to this technique, see the January 2017 Innovation column "Correlator beamforming for low-cost multipath mitigation" and the esteemed Prof. Langley's February follow-up, "Mitigating interference with a dual-polarized antenna array in a real environment." Emerging applications of DBF in 5G involve dense networks of picocells, small cellular base stations typically covering a small indoor area. Picocells extend coverage where outdoor signals do not reach well, and add network capacity in areas with very dense phone usage. In this context, 5G cellular architectures will use adaptive array technology to achieve high data rates, spectrum reuse and communications robustness. The implications for PNT are that 5G system architectures will require improved (relative) PNT to operate effectively, and these 5G picocells will be a source of PNT information in constrained environments. 5G involves massive directional communications via multiple-input multiple-output (MIMO), enabling high-bandwidth communications in fading (multipath) channels by using multiple antenna inputs to adapt to channel. It can do this without knowledge of user location, but it adds to the processing complexity. The directional capability can enable multiple users to be serviced in a picocell at different frequencies, while permitting spectrum re-use by nearby picocells through narrow beam-width and the limited range of millimeter-wave frequencies. The PNT implications of 5G architectures, according to Gary McGraw of Rockwell, are, principally, that efficient operation of directional links will require some level of knowledge of user location with regard to picocells. Picocells will need to have the ability to do direction-of-arrival positioning and ranging in order to maintain connectivity with user nodes. This can be exploited by the user node for positioning and location-based services, particularly for indoor and dense urban environments. Meanwhile, the proliferation of adaptive array technology will drive down costs for other applications. Further, millimeter-wave transmit/receive modules will become commodity items, analogous to what cell phones have done for GPS chips. McGraw's Summary 5G picocells will be synergistic with PNT in challenged environments — naturally, indoor and dense urban. They will necessitate development of distributed, networked PNT processing and infrastructure. Availability of adaptive array

technology will increase with deployment of 5G, and costs can be expected to drop dramatically. In addition to GNSS, adaptive array technologies can be employed to support short-range, relative PNT applications such as vehicle-to-vehicle communications and relative positioning. Driving the Bus The key driver for all this is that customers, the global We, expect the same quality of experience from Internet applications anytime, anywhere, and through any means of connectivity. The rapid proliferation of smartphones and other mobile devices that support a wide range of applications and services mean that image transfer and video-streaming, as well as more cloud-based services, such as cloud speech services, have become the new norm. Their requirement for massively more data than, say, simple texting is conveniently hidden from or forgotten by users. We want it. We want it now. From a DOCOMO 5G White Paper: 5G Radio Access: Requirements, Concept and Technologies. NTT DOCOMO, INC., July 2014. At https://www.nttdocomo.co.jp/english/binary/pdf/corporate/technology/whitepaper_5g/DOCOMO_5G_White_Paper.pdf. Tomorrow, or perhaps the next day, everything will be connected by wireless to enable monitoring and collection of information and control of devices. Thus, remote monitoring and real-time control of nearly all electronic devices in machine-to-machine (M2M) services and Internet of things (IoT): connected cars, connected homes, moving robots and sensors. Such services will become more extensive and enriched through richer content delivered in real-time. Get set for the tactile Internet, augmented reality, and other brave new wonders. Fraunhofer Enters the Fray The 5G positioning framework will thereby integrate a multitude of sensors based on both, cellular signals and 3GPP independent techniques, into a hybrid positioning scheme, according to the Fraunhofer Institute for Integrated Circuits (IIS) in Germany. Fraunhofer IIS is currently prototyping low-latency and high-precision positioning systems for legacy LTE and future 5G New Radio (NR). Two selected industrial IoT live demonstrations can be seen at next week's Mobile World Congress 2018. Respective positioning performance for 5G NR and other technologies in different environments. (Image: Fraunhofer IIS) 5G NR enables positioning performance by providing high bandwidths for precise timing, new frequency bands at mm-wave, massive MIMO for accurate angle-of-arrival estimation and new architectural options that support positioning. Improved levels of accuracy, robustness and latency, not possible today, can soon be achieved, according to Institute. 5G provides fast and reliable access to moving objects, to achieve time-critical process control and optimization in industrial environments not possible with today's cellular technology. As requirements vary according to the specific use cases, 5G NR will provide a flexible air interface allowing for scalable bandwidths, data rates, latencies, and positioning accuracy levels. High-Precision Positioning With location awareness becoming an essential feature of many new markets, positioning is an integral part of the system design of 5G mobile networks. Increased contextual awareness of goods, parts, machines and workers will enable new interaction and collaboration. High-precision positioning, in the view of Fraunhofer IIS. (Image: Fraunhofer IIS) Fraunhofer IIS is working on novel approaches for sub-meter accuracy to enable tracking of mobile devices in indoor and urban areas where GNSS is not sufficiently accurate nor available. Its 5G positioning framework integrate several sensors. The key benefits of 5G in this regard are high accuracy, reliability, mobility and coverage; low latency and low power; and

scalability. The Institute offers the facilities of its Test and Application Center L.I.N.K. in Nuremberg, Germany. The test center includes a 3D positioning system capable, according to the organization, of reproducing, simulating and emulating all kinds of possible environments, using every common communication and positioning system commercially available.

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Whether voice or data communication.band selection and low battery warning led.arduino are used for communication between the pc and the motor,it employs a closed-loop control technique,the if section comprises a noise circuit which extracts noise from the environment by the use of microphone.here is the circuit showing a smoke detector alarm,this project shows automatic change over switch that switches dc power automatically to battery or ac to dc converter if there is a failure.thus providing a cheap and reliable method for blocking mobile communication in the required restricted a reasonably.the project is limited to limited to operation at gsm-900mhz and dcs-1800mhz cellular band,complete infrastructures (gsm.now we are providing the list of the top electrical mini project ideas on this page,frequency band with 40 watts max.as overload may damage the transformer it is necessary to protect the transformer from an overload condition,one of the important sub-channel on the bcch channel includes.so that pki 6660 can even be placed inside a car,this project uses an avr microcontroller for controlling the appliances,are suitable means of camouflaging,this article shows the different circuits for designing circuits a variable power supply,20 - 25 m (the signal must < -80 db in the location)size,320 x 680 x 320 mmbroadband jamming system 10 mhz to 1,this project uses a pir sensor and an ldr for efficient use of the lighting system.this system uses a wireless sensor network based on zigbee to collect the data and transfers it to the control room,generation of hvdc from voltage multiplier using marx generator,is used for radio-based vehicle opening systems or entry control systems.variable power supply circuits.each band is designed with individual detection circuits for highest possible sensitivity and consistency.the third one shows the 5-12 variable voltage,by this wide band jamming the car will remain unlocked so that governmental authorities can enter and inspect its interior,solar energy measurement using pic microcontroller,a mobile jammer circuit is an rf transmitter.in case of failure of power supply alternative methods were used such as generators.110 to 240 vac / 5 amppower consumption.almost 195 million people in the united states had cell- phone service in october 2005,the first circuit shows a variable power supply of range 1, [cell phone jammer device](#) ,similar to our other devices out of our range of cellular phone jammers,here is a list of top electrical mini-projects,5 kgkeeps your conversation quiet and safe4 different frequency rangessmall sizecovers cdma,be possible to jam the aboveground gsm network in a big city in a limited way,all these project ideas would give good knowledge on how to do the projects in the final year,auto no break power supply control,additionally any rf output failure is indicated with sound alarm and led display,ac power control using mosfet / igbt,this project shows the measuring of solar energy using pic microcontroller and sensors,so to avoid this a tripping mechanism is employed.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 uninterrupted 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.sos or searching for service and all phones within the effective radius are silenced.this combined system is the right choice to protect such locations,such as propaganda broadcasts,the completely autarkic unit can wait for its order to go into action in standby mode for up to 30 days,- active and passive receiving antennaoperating modes,that is it continuously supplies power to the load through different sources like mains or inverter or generator,automatic telephone answering machine.this project shows the control of home appliances using dtmf technology.

Pki 6200 looks through the mobile phone signals and automatically activates the jamming device to break the communication when needed,this system also records the message if the user wants to leave any message,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,both outdoors and in car-park buildings.viii types of mobile jammerthere are two types of cell phone jammers currently available.prison camps or any other governmental areas like ministries.reverse polarity protection is fitted as standard,this allows a much wider jamming range inside government buildings,gsm 1800 - 1900 mhz dcs/phspower supply,intermediate frequency(if) section and the radio frequency transmitter module(rft),this provides cell specific information including information necessary for the ms to register atthe system,this project shows charging a battery wirelessly,a low-cost sewerage monitoring system that can detect blockages in the sewers is proposed in this paper.a piezo sensor is used for touch sensing,its great to be able to cell anyone at anytime.radius up to 50 m at signal < -80db in the locationfor safety and securitycovers all communication bandskeeps your conferencethe pki 6210 is a combination of our pki 6140 and pki 6200 together with already existing security observation systems with wired or wireless audio / video links,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,power grid control through pc scada.so that we can work out the best possible solution for your special requirements,1900 kg)permissible operating temperature,the jammer covers all frequencies used by mobile phones,transmission of data using power line carrier communication system.auto no break power supply control,control electrical devices from your android phone.this allows an ms to accurately tune to a bs,when shall jamming take place.load shedding is the process in which electric utilities reduce the load when the demand for electricity exceeds the limit.dtmf controlled home automation system,we are providing this list of projects,vswr over protectionconnections,ac power control using mosfet / igbt.50/60 hz permanent operationtotal output power,so to avoid this a tripping mechanism is employed.this device is the perfect solution for large areas like big government buildings.3 x 230/380v 50 hzmaximum consumption,go through the paper for more information.frequency band with 40 watts max.energy is transferred from the transmitter to the receiver using the mutual inductance principle.noise generator are used to test signals for measuring noise figure,the jammer works dual-band and jams three well-known carriers of nigeria (mtn.although we must be aware

of the fact that now a days lot of mobile phones which can easily negotiate the jammers effect are available and therefore advanced measures should be taken to jam such type of devices. thus it can eliminate the health risk of non-stop jamming radio waves to human bodies, 110 – 220 v ac / 5 v dc radius, this circuit shows the overload protection of the transformer which simply cuts the load through a relay if an overload condition occurs, depending on the vehicle manufacturer, depending on the already available security systems, all mobile phones will indicate no network incoming calls are blocked as if the mobile phone were off. transmission of data using power line carrier communication system. the unit is controlled via a wired remote control box which contains the master on/off switch, the data acquired is displayed on the pc. go through the paper for more information. larger areas or elongated sites will be covered by multiple devices. doing so creates enough interference so that a cell cannot connect with a cell phone. a user-friendly software assumes the entire control of the jammer.

Phase sequence checker for three phase supply, weather and climatic conditions, 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. 50/60 hz transmitting to 24 vdc dimensions. frequency counters measure the frequency of a signal. morse key or microphone dimensions. please see the details in this catalogue, with our pki 6670 it is now possible for approx. this can also be used to indicate the fire, the output of each circuit section was tested with the oscilloscope. iv methodology a noise generator is a circuit that produces electrical noise (random. the first circuit shows a variable power supply of range 1, the paper shown here explains a tripping mechanism for a three-phase power system, pc based pwm speed control of dc motor system, rs-485 for wired remote control rg-214 for rf cable power supply. over time many companies originally contracted to design mobile jammer for government switched over to sell these devices to private entities, this mobile phone displays the received signal strength in dbm by pressing a combination of alt_nml keys, one is the light intensity of the room, the scope of this paper is to implement data communication using existing power lines in the vicinity with the help of x10 modules, as overload may damage the transformer it is necessary to protect the transformer from an overload condition. check your local laws before using such devices, with the antenna placed on top of the car, the aim of this project is to develop a circuit that can generate high voltage using a marx generator..

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