in centralized radar systems all radar nodes share their complete observations either with a separate central coordinator or with one of the nodes that acts as the central coordinate if nodes are closely located and observe high quality wireless links then information and data sharing can be realized with minimum

traditional statistical approximate based methods will be reviewed followed by more accurate physics based stochastic transfer function clutter models that facilitate site specific simulations anywhere on earth the various factors that go into the computation of these transfer functions will be presented followed by several examples across multiple rf applications

the basic principle of closed loop remote control has been studied in the literature of wireless networked control systems nonetheless the feasibility of these methods becomes questionable in the presence of mission critical various applications including remote surgery industrial internet of things control in the smart factory autonomous vehicular platooning

the phases of channel coefficients between object and the antenna array are exploited determine however to achieve sufficient localization accuracy at least four rfid readers are required in these schemes as each typically in size first category is infeasible for mobile robots the second category antenna carried by moving equipment

our privacy metric and the resulting obfuscation approach are based on the following idea noise should be added in a way that the obfuscated user data sequences are likely to have many common patterns this means that for any user and for potential pattern that adversary might obtain for user

investigation of vulnerabilities toward adversarial inputs in setting ai assisted uav bridge inspection faces challenges from the following aspects first risk prone regions bridges apply adversarial inputs usually exist unconstrained environment changing conditions such as ambient light weather distance and angle of camera second adversarial inputs applied bridge shall sensitive

real time continuous health monitoring systems can take many forms. radically different concepts design possible however created date there have been commonalities architecture requires system capable of generating a continuous stream data about participants physiological state transmitted secure way cloud based systems capable processing large fast moving data stream fly

some existing works assumed that routing path set scheduled flow fixed simplify the problem therefore scheduling and routing process conducted separately research causes low utilization rate then most existing works only optimized performance of higher priority traffic while ignoring lower priority resulting unwarranted transmission assumption network environment was static densities

gymnastics can be practiced at playground gym or sports field where trainer or instructor usually involved guide exercisers under recent global pandemic of covid there significant shift gymnastics practices scenarios typically people can perform gymnastics activities home by following online tutorial despite home gym advantages convenience accessibility becomes questionable whether

Being essential part emerging intelligent ships crew passengers location perception trajectory recording plays important role management safety insurance Diamond Princess serious consequences lack accurate movement information passengers such enclosed space lead chaotic management ubiquitous device free human motion tracking localization system used prevent incidents utilized maritime search rescue tourists services