

The Effect of Artificial Intelligence on Mobile Phones and Communication Systems

Authors : Ibram Khalafalla Roshdy Shokry

Abstract : This paper gives service feel multiple get entry to (CSMA) verbal exchange model based totally totally on SoC format method. Such model can be used to guide the modelling of the complex c084d04ddacadd4b971ae3d98fecfb2a communicate systems, consequently use of such communication version is an crucial method in the creation of excessive general overall performance conversation. SystemC has been selected as it gives a homogeneous format drift for complicated designs (i.e. SoC and IP based format). We use a swarm device to validate CSMA designed version and to expose how advantages of incorporating communication early within the layout process. The wireless conversation created via the modeling of CSMA protocol that may be used to attain conversation among all of the retailers and to coordinate get proper of entry to to the shared medium (channel).The device of automobiles with wi-fiwireless communicate abilities is expected to be the important thing to the evolution to next era intelligent transportation systems (ITS). The IEEE network has been continuously operating at the development of an wireless vehicular communication protocol for the enhancement of wi-fi get admission to in Vehicular surroundings (WAVE). Vehicular verbal exchange systems, known as V2X, help car to car (V2V) and automobile to infrastructure (V2I) communications. The wi-ficiencywireless of such communication systems relies upon on several elements, amongst which the encircling surroundings and mobility are prominent. as a result, this observe makes a speciality of the evaluation of the actual performance of vehicular verbal exchange with unique cognizance on the effects of the actual surroundings and mobility on V2X verbal exchange. It begins by wi-fi the actual most range that such conversation can guide and then evaluates V2I and V2V performances. The Arada LocoMate OBU transmission device changed into used to check and evaluate the effect of the transmission range in V2X verbal exchange. The evaluation of V2I and V2V communicate takes the real effects of low and excessive mobility on transmission under consideration.Multiagent systems have received sizeable attention in numerous wi-fields, which include robotics, independent automobiles, and allotted computing, where a couple of retailers cooperate and speak to reap complicated duties. wi-figureen communication among retailers is a critical thing of these systems, because it directly influences their usual performance and scalability. This scholarly work gives an exploration of essential communication factors and conducts a comparative assessment of diverse protocols utilized in multiagent systems. The emphasis lies in scrutinizing the strengths, weaknesses, and applicability of those protocols across diverse situations. The studies additionally sheds light on rising tendencies within verbal exchange protocols for multiagent systems, together with the incorporation of device mastering strategies and the adoption of blockchain-based totally solutions to make sure comfy communicate. those developments offer valuable insights into the evolving landscape of multiagent structures and their verbal exchange protocols.

Keywords : communication, multi-agent systems, protocols, consensussystemC, modelling, simulation, CSMA

Conference Title : ICDCN 2024 : International Conference on Digital Communication and Networks

Conference Location : New York, United States

Conference Dates : December 09-10, 2024