IOT_assignment

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"LTE-V: A TD-LTE-Based V2X Solution for Future Vehicular Network"

a)

- This paper talks about V2X solution using the LTE network domain. v2x is basically vehicle to vehicle seamless communication using the Legacy network.
- TD- LTE provides excellent bandwidth, latency and QoS which is vital for any seamless v2x communications.
- There are multiple challenges associated with v2x solutions like speed versus latency, overload during peak traffic hours and how to streamline the hardware equipment.
- The LTE cell environment offers necessary improvements on handover procedure, faster resource allocation, and a better efficient optimization of coverage V2x communication.

b)

- "LTE-V-direct" here vehicles can communicate directly with each other and give the information about present traffic system and its surroundings.
- Optimization of various network resources/layers such as RRM (Radio resource manager), physical layer and using the Slotted MAC Mechanism.
- "LTE-V-cell"- Vehicles communicate with each other using the legacy network where QoS is promised.
- Improvement, efficiency and Optimization of TD-LTE and coordination between the direct and legacy LTE cell .

c)

- Networks can be scaled efficiently if we deploy a greater number of computing systems which will increase the network scalability.
- With the use if IOT devices, sensors data and applications the network is flooded, hence this can be minimised using relevant CPU's,GPU's.
- Dedicated servers for data particular to v2x solutions will lead to higher QoS and reduce the error rates.
- The data collected from the environment can be studied efficiently with the help of scalable CPU and GPU's and can provide better solution for a traffic problem and better communication among the vehicles.

"IoT-Based Big Data Storage Systems in Cloud Computing: Perspectives and Challenges""

a)

- For a business to perform well it's essential to obtain, merge and store in storage systems for data, and process it efficiently and precisely
- Data analysis, storage and better representation of unstructured data which are gathered in real time
- With respect to IoT and big data the paper presents **a** structure which recognizes the collection, managing, handling and mining fields.
- For the best intelligent system, the data in the IOT applications should be in relation. IOT systems will achieve better interoperability like "contextual business scene, semantic annotation, multidevice cooperation".

b)

- With huge applications in the IOT this system makes the tracking, data processing and resource allocation easy in the cloud platforms.
- Data with Low level with weak semantics can be improved and managed.
- Introduction to "cloud of things" as devices like sensors and devices are increasing rapidly.
- Defines the optimization techniques for architecture and data storage.

c)

- Gives brief insight about different types of data that comes through sensors and their scaling
- With the introduction of more CPU's and GPU' processing becomes more efficient and power scaled.
- Huge chunk of data can be collected, stored and processed and filtered out with more scalability.
- With the distributed environment the resources can be managed easily and efficiently.

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