**Software-Defined Mobile Cloud: Architecture, Services and Use Cases**

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First, Introduction to SDN, OpenFlow. Design of SDN in wireless adhoc network (SDN wireless node- function and model). Several functions and advantages of SDN discussed (Use cases). SDN frequency-based architecture- multiple and configurable wireless interface wireless node. Simulation of 30-50 nodes network in NS-3 simulator done. Performance criteria included Packet Delivery Ratio, SDN control traffic with increase in mobility. Also included PDR during SDN failure.

Pro: SDN based routing better than traditional routing protocols (based on PDR ratio), Control traffic overhead is low.

Con: In the model, local SDN controllers haven’t been used causing low PDR during Global SDN failure.

**Mobile Cloud Development with Software Defined 5G Networks using NFV**

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Problem is need to provide cloud mobility among HetNets. Proposed solution is deploying C-RAN, where all resources are incorporated. UE’s are connected to AP’s which would be connected to C-RAN. OpenStack (OpenFlow controllers) in C-RAN. Details about the OpenStack architecture given. Then proposes use of NetFPGA. Advantages of NetFPGA discussed. NetFPGA takes decision of routing instead of the OpenFlow controller when no flow entry is present. NetFPGA processes parameters like line rate, data rate.

Pro: Techniques to discuss various threats. No license. Crypting/ Decrypting of packets.