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Key evolutions in future wireless communications

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The present day wireless networks are evolving in two main directions. The first is the introduction and thorough examination of the 5G communication technology, which is set to expose users to unprecedented network speed. The 5G technology revives the low data rates attributed to the legacy cellular networks. Several industry partners have already invested considerably in testing and deploying the 5G technology. However, 5G base stations and mobile devices only have a small coverage range. The inherently low communication range of 5G networks has fuelled research interest into a number of other technologies. For example, Mobile Relay Networks and Femtocells have gained renewed attraction from academia and industry alike. While the cellular networks build towards the 5G era, the IP networks are also witnessing massive redesigning of their own. The recently introduced concept of programming the intermediate routers has kick-started several research efforts across the globe. The so called Software-Defined Network (SDN) is concerned with updating the flow table entries of the routers based on the commands given by a central device only by means of software. This talk covers a mix of issues pertinent to the 5G world and the SDN driven wireless Internet. The motivation for discussing these two apparently disjoint topics together is the fact that SDN-based 5G networks have recently emerged.

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Migration from LTE to Outernet: Trends, implementation & opportunities in Saudi Arabia

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There is a rapid growing among communications proficient that Outernet and its associated expertise is set to soon replace the current LTE technology. Outernet signal is rather interesting to introduce Free Worldwide Wi-Fi access beamed from space provided a completely free internet. Perhaps, this can be clarified by the short-term of free unlimited WiFi. In addition, this technology is capable to handle the growth of information trends, particularly the development of internet technologies and opportunities including cloud computing. Therefore, a realization of the transformation gives you an idea about the steady and properly guide and management. Furthermore, the LTE was formed to secure faster mobile data. The methods engaged in this migration consist of design, implementation and opportunities in Saudi Arabia. This paper focuses on predictability of adopting Outernet, and detailed the assessment of the transition systems and its related benefits. Moreover, the trends for each transition system are overviewed.

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