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5G technology deployment considerations along Internet of Medical Things program support for Public Healthcare

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The current research analysed the existing literature and made significant contribution in the perspective of the ongoing insinuations of electromagnetic radiation emitted from the novel 5G network technology installation. The electromagnetic spectrum (EMS) is the collection of frequencies of electromagnetic radiation (EMR) dispersed through the electromagnetic base station such as telecom mask. The ionizing radiation possesses an imposing quantum of electromagnetic energy to hit off electrons and ionize the electrically charged particles, while the non-ionizing radiation (NIR) does not acquire a sufficient amount of electromagnetic energy to ionize atoms or molecules. On the contrary , the research established that deploying non-standalone 5G network along 4G network core on low ,mid/high baseband does not emit radiation capable of destroying body cells. The novel 5G network technology was tested along scenario 1, scenario 2 and scenario 3 to find out if 5G network does emit electromagnetic non-ionizing radiation capable of destroying body cells as already alleged .The paper discovered that deploying non standalone or standalone 5G network on low, mid/high baseband does not produce dangerous effects on human health. The research finally submitted that deploying the standalone 5G network on unmodulated ultra-high baseband (frequency >=20 GHz) produces non-ionisable, non-visible radiation regarded as wireless radiation capable of adverse health effect including heating up the human skin through polarization.

Biography

Ugochukwu O Matthew, presently is an academic scholar with Hussaini Adamu Federal Polytechnic, Nigeria in the department of Computer Science with specialty in Artificial Intelligence, Biotechnology Researches on the effects of electromagnetic radiation (EMR), Big Data Science, Cloud Computing, Internet of Things, Data Mining, Multimedia and E-Learning Education. A member of Nigeria Computer Society (NCS) , Nigeria Institute of Management (NIM), International Association of Computer Science & Information Technology (IACSIT), International Association of Engineers of Computer Society (IAENG-CS) , Association for Computing Machinery (ACM) and also a member of Teaching & Education Research Association (TERA). Ugochukwu O. Matthew holds Masters in Computer Applications from Bayero University Kano, Nigeria and currently on Federal Government of Nigeria Postgraduate Scholarship Programme at Computer Science Department, Universidade Federal De Viçosa (UFV) Brazil. Matthew had authored and co-authored several research papers published in the International Journals and Local Journals of high academic standard including globally circulated text books, practical manuals and monographs. A widely travelled scholar, Matthew had reviewed Journals and a member of Editorial Committee of Journals Indexed by Scopus and Web of Science with vast intellectual contributions in academics and among the Learned Societies.