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M-health 2.0 – The future of mobile health from 5G and IOT perspectives

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Mobile health (m-health) is now widely considered as one of the main vertical areas of telecommunications industry, attracting multiple of billion US\$ in global investments worldwide in different healthcare delivery services from health and wellness monitoring to remote medical imaging. Together with medical sensing, computing, the advances in wireless communication and network technologies constitute the key elements required for the realization elements of the necessary building blocks of any m-health reference model and system. Currently, the interest and focus on the ongoing developments in 5G mobile communications combined with their Internet-of-Things connectivity challenges, have been the focus of extensive debate and research efforts both from industry and academia worldwide. However, little has been discussed so far and presented on the relevant challenges of these developments and their impact from the mobile health perspective. This talk will present an overview of the future of mobile health (m-health 2.0) and the challenging aspects related to the futuristic scenarios and applications from the emerging healthcare delivery domains that these technologies will present. These futuristic scenarios and challenges particularly using 5G communications networks and their Machine-To-Machine communications from the m-health 2.0 perspective, will be vital for the continuation of the mobile health domain as force majeure within global telecommunications industry. The presentation will reflect the outcomes of two decades of advanced research and development experience of the speaker in the areas of mobile health and his pioneering work in this domain.

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Effective use of mobile applications in education: Facebook as a case study

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This article examines whether using Facebook and other mobile applications for educational purposes affects the opinions of pre-service teachers attending relevant classes. A quantitative and experimental approach is adopted that makes use of blended and online groups, as well as pre- and post-tests. The study spanned more than eight weeks (45 hours in total). Learning materials were uploaded to the course's Facebook page using mobile applications such as SlideShare, Viddy, Dropbox, and WiZiQ. Facebook, contributed to a notion whereby students perceived themselves to be participants in an actual classroom. This configuration allowed them to share information visually and vocally, subsequently enriching course content; in parallel, it also facilitated access to classroom materials regardless of locality, thus increasing learner motivation. Participants comprised third-year pre-service teachers. The research results revealed that Facebook integration exhibited a positive effect on student learning, motivation, success, classroom interest, creativity, and self-expression. The positive viewpoints expressed in this study are likely attributable to Facebook's facilitation of information sharing via various mobile applications, coupled with the ability to follow other users and information sources. The tools discussed are simultaneously mobile and web-based, allowing students to pursue their education in either environment using a smart device or PC respectively.

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