

Euroscicon Conference on 3D Printing and Wireless Technology

September 17-18, 2018 Lisbon, Portugal

Am J Compt Sci Inform Technol 2018 Volume: 6 DOI: 10.21767/2349-3917-C2-006

WEARABLES FOR PLANTS AND HUMANS: DOWNSCALING To Nanosscale

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With the growing interest in the use of technology in daily life, the potential of using wearable wireless devices across multiple segments i.e., agriculture, healthcare, sports, child monitoring, military, emergency, consumer electronics, etc. is rapidly increasing. It is predicted that there will be more than billion wearable sensors by 2025, with over 30% of them being new types of sensors that are just beginning to emerge. This talk will be focused on the various challenges for wearable technologies from antenna design, propagation and system modelling, security and sensor development prospective with application in health of both plants and humans. In addition, nano communication paradigm using terahertz waves will also be discussed based on both numerical and experimental results for the communication of future nano devices on the plants and inside the body with application in healthcare and future agriculture domain.

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