Biosensors & Bioelectronics-2013

OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Conference and Exhibition on
Biosensors & Bioelectronics

June 17-19, 2013 Hilton Chicago/Northbrook, USA

Biosensors for smartphones: How to make it smarter?

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Abstract

The modern smartphone market is a high growth and potentially huge market. A Consumer Electronics Association (CEA) representative at a press conference on 2013 Consumer Electronics Show in Las Vegas (USA) said that the technology industry has entered the "post-smartphone era" when communication functions such as calls and texting are no longer the main focus for smartphones. The representative noted that smartphones now mainly are used for non-communication types of functions. CEA also said that consumer electronics products are becoming "sensorized"-i.e., devices like smartphones are making increasing use of sensors that allow the digitization of everyday things. In terms of functionality, sensors continue to improve significantly. Future smart devices (smartphones and tablets) will include new sensor types, such as biometric, pressure, and environmental sensors, along with ones currently in most smartphones. Various chemical and biosensors essentially extend smartphone applications. 30 % of total smartphone uses (500 million people) will have used healthcare applications by 2015. Many of these applications are biosensor based applications: 76 % of total healthcare application market revenue will come from related services and products such as sensors. This presentation gives a state-of-the-art review of various biosensing systems for smartphone applications. The current trends in smart sensor systems design are highlighted.

Biography

Dr. Sergey Y. Yurish has completed his Ph.D in 1997 from National University Lviv Polytechnic (UA). He is a president of International Frequency Sensor Association (IFSA), R&D director and co-founder of Technology Assistance BCNA 2010 company. Dr. Yurish has published more than 160 articles and papers in reputed journals and conferences, holds nine patents and serving as an editor-in-chief of Sensors & Transducers journal. He is an author and co-author of seven sensor and measurements related books.

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