



Innovation and Technology Advancement for Health

Care System in the eHealth era

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Advances in science and technology will bring many new treatments and diagnostics to the healthcare world. It is equally important to extend the innovation and technology advancements for diseases prevention, health promotion, and health systems for prolonging life and improving quality of life in the entire population. However, the healthcare demands of the public and the costs to achieve high standard from the healthcare providers are continuously increasing. Effective screening and disease prevention programs would save lives and improve quality of life, reduces the risk of developing serious conditions or complications, and if appropriately utilize, it would also reduce healthcare expenditure. Innovative approaches to the health information management and in particular innovative screening are therefore important to ensure that our healthcare services are affordable, accessible, and available in the community. In this talk we will discuss new trends and developments that use: 1) cloud and internet computing; 2) mobile health management; 3) machine learning and predictive analytic; 4) robotic including automation for potential applications that contribute to solving part of the public health problems. We would discuss our own projects, in particular the “Automatic Retinal Image Analysis (ARIA)” method for stroke risk assessment as an example, and aim at stimulating discussion on future public health development in the eHealth era.