“eHealth and the modern society”

Presented by Tony Sahama, Andrew Stranieri, Priyantha Hewagamage and Mahesh Fernando

Synopsis

The integration of Information and Communication Technologies (ICT) into healthcare processes “eHealth” is driving enormous change in healthcare delivery and productivity. The transformations empower patients and present opportunities for new synergies between healthcare professionals, clinical decision makers, policy makers and educators. Technologies that are directly driving changes include Tele-medicine, Electronic health records (EHR), Standards to ensure computer systems interoperate, Decision support systems, Data mining and easy access to medical information. This workshop provides an introduction to key informatics initiatives in eHealth using real examples and suggests how applications can be applied to modern society.

Audience

The workshop is intended to appeal to academics, medical practitioners, researchers and students interested in learning out more about how eHealth is transforming modern medicine, healthcare and how it may be positively applied to healthcare services in general. The workshop will also be attractive to technologists who are looking for new application areas for analytics, decision support or medical software and application development.

Duration

The workshop is intended for a three to four hour slot. Attendees will receive copies of slides, reference lists and related information.

Program

Introduction to terminology (eHealth, Medical/Health Informatics, Bioinformatics, and Biomedicalinformatics)
Successful eHealth projects (case studies from developed to developing countries)
Electronic Health Records and their Challenges and Benefits. Examples
Tele-medicine
Technological trends and application development Examples
Role of Decision Support Systems in general and Clinical Decision Support system as specific cases
Data mining in Health
Patient empowerment, policies, procedures and protocols
Software systems, application development and data integration
Privacy and Security including managing the risk in particular when exchanging health information.

Presenters

Dr Tony Sahama Queensland University of Technology. Born in Sri Lanka, Tony was educated at University of Peradeniya, Kandy, Sri Lanka and employed at the same university prior to migrating to Australia. Since moving to Australia, Tony lectured for seven years at Victoria University of Technology (VUT), Melbourne and University of Queensland (UQ) in Brisbane respectively. At present, Tony is a senior lecturer in the Information Security Discipline, Faculty of Science and Engineering (SEF). His research interest is in Health/Medical Informatics in particular, Healthcare Information Technology (HIT), Information Accountability and Clinical Decision Support Systems design and development. Dr. Sahama possesses PhD in Computer Science (Computer Simulation and Modelling, DACE), and has experience working with researchers in developing customised technology applications for Clinical Decision Support Systems, Data warehousing, Data Integration and IT applications for healthcare decision making processes. Tony’s recent work is in developing IT educational applications for consumers in the PACT arena (People Accepting Controversial Technologies). Currently, Tony is supervising six (6) PhD level research projects in the Medical/Health Informatics research area. Tony holds professional membership with ACM, IEEE, IBS, ACS, SSAI and HISA. More details can be retrieved from this http://staff.qut.edu.au/staff/sahama link.

Associate Professor Andrew Stranieri leads the Health Informatics Laboratory in the Centre for Informatics and Applied Optimisation at Federation University Australia. His research in health informatics spans data mining in health, complementary and alternative medicine informatics, telemedicine and intelligent decision support systems. He is the author of over 150 peer reviewed journal and conference articles and has published two books. He adapted his training in psychology to inform research into cognitive models of argumentation and artificial intelligence. His research in health informatics spans data mining in health, complementary and alternative medicine informatics, telemedicine and intelligent decision support systems.

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