HEALTH INFORMATICS RESEARCH CASE STUDY AND APPLICATIONS

MOHD KHANAPI ABD GHANI
RAJA RINA RAJA IKRAM

HEALTH INFORMATICS RESEARCH: CASE STUDY AND APPLICATIONS

Health informatics is information system or ICT in health care. It is a multidisciplinary field that uses information and communication technology to improve healthcare services via any combination of higher quality, higher efficiency, and new opportunities. The disciplines involved include information science, computer science, social science, behavioral science, management science, and others. Health informatics is the interdisciplinary study of the design, development, adoption and application of ICT-based innovations in healthcare services delivery, management, and planning. It deals with the resources, devices, and methods required to optimize the acquisition, storage, retrieval, and use of knowledge in health and medical.

In a nutshell, this book aims to chronologically set out our health informatics research project, share our early experiences and the lessons we've learned , and our yet unfaltering faith in its workability. We have come what seems like a long way, and though we have much more miles to run before the finish line, by God's good grace, we will deliver health informatics research findings and innovative application to improve healthcare services and delivery.

A brief preview of the book is provided in the chapter summary below:

Chapter 1: Pervasive Healthcare Knowledge through Integrated Telehealth: The Case of Haemato-Oncology

Chapter 2: An Analysis of Computerised Systems Models in the Pharmaceutical Supply Chain: A Case Study of a Malaysian Pharmaceutical Manufacturing Company

Chapter 3: A Framework for Accessing Patient Health Records through Pervasive Storage Devices

Chapter 4: An Overview of Nursing Home Care and Proposed Implementation of E-HealthCare: A Case Study

Chapter 5: A Systematic Literature Review on Non-Communicable Prediction Model

Chapter 6: A Survey of EHRS Acceptance in Jordan Hospitals: Preliminary Results and Findings

Dr. Mohd Khanapi Abd Ghani is a Professor at the Department of Software Engineering, Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka (UTeM). He had 17 years of experience in managing, developing and implementing commercial and national ICT projects before changing his career path from industry to academia in 2003. He earned his Diploma in Computer Science, from Universiti Teknologi MARA. He then received his Bachelor Degree in Computer Science and Master of Science in Real- Time Software Engineering from Universiti Teknologi Malaysia. He then pursues his third degree in Biomedical Computing and earned a Doctor of Philosophy (Ph.D.) from Coventry University, United Kingdom in 2009. His research areas of interest include electronic healthcare systems, telemedicine, healthcare knowledge management, system architecture and software reuse. He was appointed as Principal Consultant for BIT Group Sdn Bhd for developing an Integrated Healthcare Information System (IHIS) and Telehealth Associate Consultant for AIH Group (Malaysia) Sdn Bhd for developing telehealth application nationally and internationally.

Raja Rina Raja Ikram is a Ph.D. candidate at the Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka (UTeM). She graduated from the University of Melbourne, Australia with a combined degree in Bachelor of Software Engineering (Hons.) and Bachelor of Commerce in 2007. She received her Master of Science in the field of Healthcare Computing from Universiti Teknikal Malaysia Melaka (UTeM) in 2013. She has past working experiences in multinational companies including quality engineering and quality assura positions in one of Malaysia's largest pharmaceutical manufacturing company. She is the au and co-author of national and international papers including high impact journals publications. research areas are in the healthcare domain and her research interest includes biomed computing, health informatics, computer validation, electronic health records, and enter resource planning systems.

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