

eHealth Research Group Meeting

30th January 2017

Chair's report

1. New member: Shukla Sikder, School of Teacher Education, Charles Sturt University
2. eHealth Workshop at Young Service Club, Young in 9th of February 2017
 - a. Mainly academics including Mark, Linda, Rodney,
 - b. Industry people such as Telehealth will also attend
 - c. After meeting with each other, we will work together with the industry people present at the meeting.
 - d. DeanOfScience may attend in the workshop
 - e. Costs will be covered
 - f. If you would like to attend please, send an email to Wendy Smee today
3. New projects and outcomes (16 publications, I am aware of)
 - a. Automatic Retinal Vessel Extraction Algorithm, Toufique Soomro
 - i. T.A. Soomro, J. Gao, MAU Khan, TM Khan, M. Paul and N Mir, (2016), "Role of Image Contrast Enhancement Technique for Ophthalmologist as a Diagnostic Tool for the Diabetic Retinopathy," IEEE International conference on Digital Image Computing: Techniques and Applications (DICTA 2016).
 - ii. T.A. Soomro, J. Gao, MAU Khan, M. Paul, (2016), " Automatic Retinal Vessel Extraction Algorithm," IEEE International conference on Digital Image Computing: Techniques and Applications (DICTA 2016).
 - iii. "Computerised Analysis of the Retinal Colour Fundus Images: A Review," provisionally accepted in Pattern Analysis and Applications
 - iv. "Impact of Image Contrast Normalisation on Segmentation Model: A Retinal Image Case," provisionally accepted in Signal, Image and Video Processing Journal.
 - b. Project: Early Diagnosis of Alzheimer's Disease- Pushkar Bhatkoti
 - i. "Early Diagnosis of Alzheimer's Disease: A Multi-class Deep Learning Framework with Modified k-sparse Autoencoder Classification," IEEE Image and Vision Computing New Zealand (IVCNZ 2016).
 - c. Project: Cardiopulmonary measurement using the smartphone- Linh Pham
 - i. "An exploration of non-contact cardiopulmonary measurement using the smartphone in rescue relief events," International Conference on Advances in Electrical, Electronic and Systems Engineering (ICAEESE 2016), **Best paper award**
 - d. My students Motiur Rahman achieved the **best paper award** in HDR symposium 2016 in PhD category
 - e. My student Linh Pham achieved the **best paper award** in HDR symposium 2016 in DIT category
 - f. Project: Adoption of My Health Record (MyHR) in General Practices of Victoria – Urooj Khan

- i. Khan, U. R., Zia, T. A., Prera, K. (2016). An exploratory study of the role of eHealth in Healthy Ageing. The 3rd International Workshop on Reliability of eHealth Information Systems, held in conjunction with 18th IEEE International Conference on E-health Networking, Application & Services (IEEE Healthcom 2016). September 14-17, 2016. Munich, Germany
- g. Dr Azizur's projects:
 - i. Rahman, A. (2016). A new method for estimating geographical health related characteristics of populations, Paper accepted for presentation at the 23rd Australian Statistical Conference which is to be held in conjunction with the 14th Australasian Data Mining Conference (AusDM) and the 9th Australian Conference on Teaching Statistics (OZCOTS), Canberra (December 5 – 9).
 - ii. Rahman, A. and Hakim, M.A. (2016). Modeling health status using the logarithmic biophysical modulator. *Journal of Public Health and Epidemiology*, (forthcoming).
 - iii. Rahman, A., Hakim, A.M., Hanif, M.A., Islam, M.R. and Kamruzzaman, M. (2016). Dietary practices, health status and hygiene observance of slum kids: A pilot study in an Asian developing country. *JP Journal of Biostatistics*, 13(1), (in press).
 - iv. Rahman, A. and Hakim, A.M. (2016). Measuring modified mass energy equivalence in nutritional epidemiology: A proposal to adapt the biophysical modelling approach. *International Journal of Statistics in Medical Research*, 5(3), pp. 219-223.
 - v. Rahman, A. and Hakim, A.M. (2016). An epidemiological study on hygiene practice and malnutrition prevalence of beggars children in Bangladesh. *International Journal of Nutrition and Dietetics*, 4(1), pp. 29-46.
 - vi. Rahman, A. (2016). Significant risk factors for childhood malnutrition: Evidence from an Asian developing country. *Science Journal of Public Health*, 4(1), pp. 16-27.
 - vii. Hakim, A.M. and Rahman, A. (2016). Health and nutritional condition of street children of Dhaka city: An Empirical Study in Bangladesh. *Science Journal of Public Health*, Special Issue: Childhood Malnutrition in Developing Countries, 4(1), pp. 6-9.
 - viii. Hasan, N., Ashraf, M. and Rahman, A. (2016). Effects of information communication technology (ICT) in the childhood developments and lives of disabilities: A multivariate analysis. *Science Journal of Public Health*, Special Issue: Childhood Malnutrition in Developing Countries, 4(1), pp. 28-37.
 - ix. Rahman, A. and Hakim, A.M. (2016). Malnutrition prevalence and health practices of homeless children: A cross-sectional study in Bangladesh. *Science Journal of Public Health*, Special Issue: Childhood Malnutrition in Developing Countries, 4(1), pp. 10-15.

4. project proposal