

13 IS439 – INTERNET OF THINGS APRIL POSTER DAY

2016

TIME:
VENUE:

5PM ~ 7PM
CONCOURSE T-JUNCTION BASEMENT 1
(BRAS BASAH MRT STATION EXIT 'C')
SINGAPORE MANAGEMENT UNIVERSITY
70 STAMFORD ROAD, S178901



POPEYE is an IoT system that uses wearable sensors to track seafarer's vital signs for any possible fatigue or illness that can impair their ability to work safely during offshore tours. Alerts are sent in real time to relevant personnel, so that corrective actions can be taken quickly to improve workplace safety and employee welfare.



TEAM ARMENIAN

Team Armenian aims to minimize the number of road accidents by managing the lighting in low lit areas or areas with adverse weather conditions. The solution is to illuminate road crossings by varying the levels of brightness, depending on the weather conditions and light illuminance of the area when motion is detected.



School of
Information Systems

Contact A/Prof Tan Hwee Pink @ hptan@smu.edu.sg for more information.



HogNoMore



E-motion is a cost-effective elderly inactivity monitoring system that provides intelligent analytical solutions on the optimal number of sensors required in the house. E-motion also allows users to simulate the optimal system implementation, based on effective sensor placement and cost of the system, prior to the physical implementation.

HogNoMore is an IoT initiative which aims to reduce the severity of seat hogging in school libraries, through the use of image sensors and Clarifai, a visual recognition tool. This allows for efficient use of library spaces, while creating more pleasurable experiences for library users.

ElderWise is an IoT solution that detects symptoms of depression in elderly by monitoring their daily activities. ElderWise is aimed at early stage intervention, and is implemented in the homes of elderly who are residing alone.

SupplyWatch is a web-based application that utilizes load sensors to determine the supply level at beneficiaries' residences, at the start and end of the month. The collected information is then monitored and analyzed to better understand the beneficiaries' consumption behaviours. This aids VWDs in making informed purchasing and delivery decisions, to bridge existing gaps between consumption and supply.



5 Blind Mice

eyeGuide is a visually handicapped friendly mobile application, which aids the visually handicapped in obtaining contextual information of their surroundings in in-door environments, such as shopping malls and office buildings. With this, they are able to navigate indoor environments confidently, with minimal help.



Librarians spend a lot of effort and time in patrolling, to maintain quietness in libraries. We hope to lighten their load with the implementation of IoT devices. **Hush** measures noise levels across the entire library and helps librarians to pinpoint critical noisy areas.



This project addresses the problem faced by residents in New Delhi, who have to check their water tanks daily to ensure that they have enough water supply. The IoT solution monitors the water level of the tanks and automatically sends requests to the local administrative board for water tanker dispatch when water levels run low.