

18 Apr 2018 IS439 – Internet of Things: Technology & Applications Poster Day

Time: 4.45 pm ~ 7.15 pm
Venue: CONCOURSE T-JUNCTION BASEMENT 1
(BRAS BASAH MRT STATION Exit 'C')
SINGAPORE MANAGEMENT UNIVERSITY
70 STAMFORD ROAD, S178901



Internet of wheels aims to leverage upon IoT technology to automate the expensive and tedious data collection of route accessibility information for wheelchair users. Data collected from non-intrusive sensors installed on wheelchairs will pave the way to revolutionize future route planning applications in order to support users with greater mobility needs

Sparklean

Team **Sparklean** aims to provide an efficient solution to restroom cleaning services in SMU by leveraging on Internet of Things (IoT) and Data Analytics. Sensors that track the usage of restrooms around campus facilitates better allocation of manpower and resources, subsequently enabling timely cleaning schedules for maximum efficiency



Chope4You aims to solve the issue of seat hogging by implementing an IoT system to keep track of the locations of its users. Through the combination of IoT to determine a user's current location, as well as an app accessible only on premise, we can effectively control if a user is hogging a seat based on his/her current location

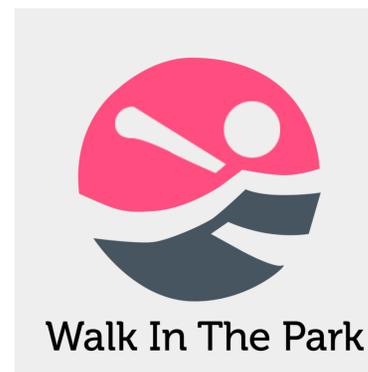
Scoot Away is bringing digital to E-Scooters! Leveraging on IoT and Data Analytics, we strive to curb speeding issues and create a safer environment for the NTU community. By monitoring riders' speed and location, both riders and the NTU management will be alerted if the speed limit, set by LTA, is exceeded

MY CIGARETTE IS NO SECRET aims to provide real time detection of illegal smoking in SMU's stairwells. We achieve this by implementing smoke sensors and crowdsourcing alerts through a telegram bot. This two-prong approach helps to alert security guards of smoking hotspots through an interactive dashboard and telegram channel



Project **yinyang** uses IoT to help urban gardeners better understand if the amount of water given to the plants is sufficient and to analyze the suitability of the location to grow plants, due to the variations of the sun's movement. As such, it will help to optimize the condition of the plants, which will lead to better growth

#WalkInThePark aims to help Singaporeans achieve an active and healthy lifestyle all while having fun and discovering parts of Singapore. By placing Beacons along several checkpoints that make up a grand route, users locate each checkpoint with an initial hint to reach the finish line ahead of other users to be on top of the leaderboard



Project **Greenman++** aims to alleviate the current limitation placed on the Greenman+ scheme that is a fixed additional duration based simply on the size of the crossing. Harnessing IoT and analytics, we would profile elderly individual walking patterns and increase the total duration given for the crossing based on each elderly's needs

