



EGBE 693 Research Seminar for Biomedical Engineering II
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Date: April 8, 2014 Time: 10AM-11AM
Department of Biomedical Engineering
Mahidol University (Room 6373)



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**“A Falling Alert System for Elderly People Using GSM
Communication System”**

Abstract—Recently, United Nations has reported that the population over the age of 60 years constituted 11.7 percent of the population in 2011, and it will be increased to 20.2 percent in 2050. Obviously, fall is one of the most dangerous problems, since it causes serious injury or accidental deaths. Furthermore, the elderly people who have fallen would scare about fall, and cannot do any activity or cannot be alone. Hence, a fall monitoring system which can detect and immediately alert the fall of the elderly people is necessary to reduce the fall fatalities as few as possible. This research is a development of a system for monitoring the fall and alerting to a hospital and his/her relative immediately. The falling alert system consists of three components: 1) a fall-monitoring and alerting device, 2) an alert receiver application, and 3) an ambulance navigator.