The Electrical and Computer Engineering Program presents
ECEN Seminar Series

An Intelligent Telemedicine Platform with Cognitive Support for Chronic Care Management

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Lecture Hall 144

Providing accessibility to quality healthcare anywhere and anytime to all the citizens is one of the challenges of this millennium. Using Information Technology that has the prowess to face this challenge, we have developed an internet based telemedicine platform that has the capability to provide anywhere-anytime consultation and the system is highly scalable. With the addition of remote physiological sensors and artificial intelligence to the system, this stands out as the most advanced system in the field.

We have successfully tested this telemedicine system in conjunction with an analytic engine that provides alerts, status and care information about the disease state to both doctors and patients, in self-management of congestive heart failure (CHF) by the patients. A limited clinical testing at the Harris Methodist Hospital in Cleburn, TX, USA has shown that using our system the CHF patients can be successfully kept away from returning to emergency room for a period of 30 days from the initial discharge from the hospital.

We have also developed a model for incorporating telemedicine system along with the current setup to enhance utilization of the outpatient clinics without overbooking. This model has the capacity to address the problem that patients face in getting appointments with doctors within a reasonable time.

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