

IART 046
A Wireless Sensor Network for Earthquake Response Monitoring

Liang Cheng

Assistant Professor, Department of Computer Science and Engineering, Lehigh University, Bethlehem, PA

Clay Naito

Assistant Professor, Center for Advanced Technology for Large Structural Systems, Lehigh University, Bethlehem, PA

Abstract

The purpose of this project is to research and develop a wireless sensor network for the Lehigh University Network of Earthquake Engineering Simulation (NEES) site. The work will greatly enhance the single wireless NEES sensor application by providing a multi-instrument network that can be effectively used for monitoring and evaluating complex structures. Partner companies include Communiverse Labs (Allentown, PA).