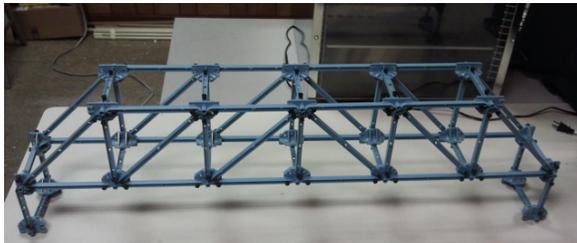
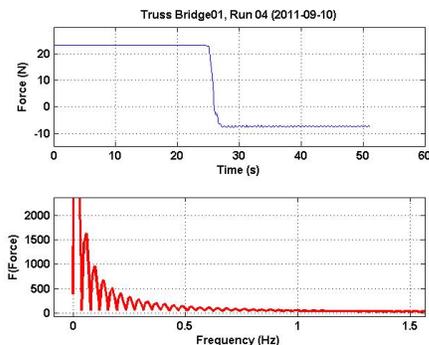
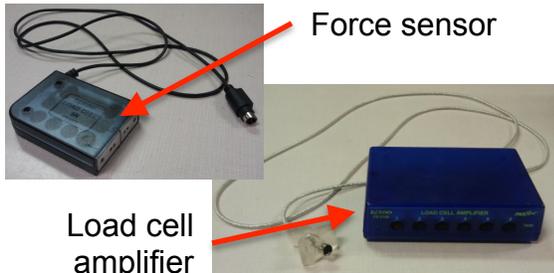


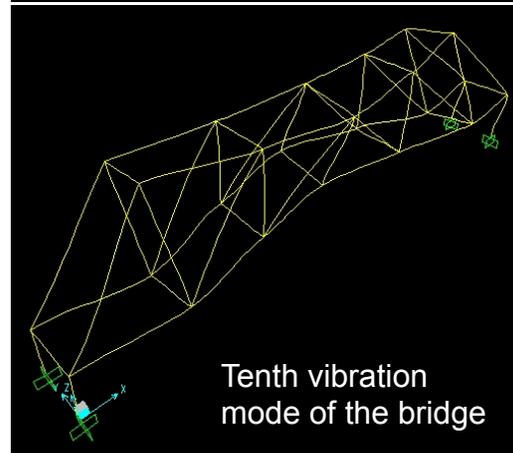
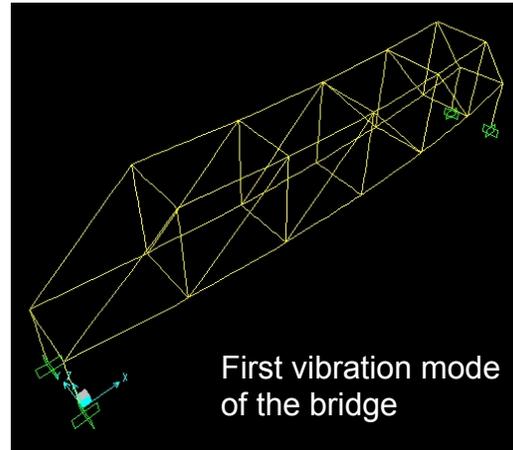
- Abstract:** Structural health monitoring (SHM) represents an important approach for civil engineers to assess the condition of aging structures. In this research, a truss bridge was built and numerically modeled by SAP2000® to relate artificial damage with the dynamic response of the bridge.



- Dynamic response measurement:** Pasco® force sensors, load cell amplifier, PowerLink Data Acquisition System and DataStudio software



- Numerical simulation:**



- Conclusions:** Dynamic response of structures in both time and frequency domains provides insightful information about the structural condition. Denoising techniques are important to remove background noise when using dynamics techniques.



Jeremiah Otchere-Nyarko

- Ref:**

- **Otchere-Nyarko, J.**, Master's Thesis, Dept. of Civil & Envir. Eng, UMass Lowell, June, 2011.