

## **Seminar Talk**

Duc Nguyen, Ph.D.

Professor

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Old Dominion University

**Friday, November 21, 2014**

**3:00 p.m. KH 224**

### **Title:**

Cholesky Method For Solving Simultaneous Linear Equations (SLE): Tutorial Lecture, JAVA Computer Animation, and Collaborative STEM Proposals.

### **Abstract:**

In the first part of the presentation, the Cholesky algorithm will be briefly reviewed. This will be followed by educational demonstration of the algorithm design and implementation using Java computer animation in the second part, which includes samples of Youtube lectures developed by Dr. Duc Nguyen based on several prior and current NSF funded STEM proposals. In the third part, possible collaborative work for developing and submitting STEM proposal(s) will be discussed.

### **Biography:**

Dr. Duc Nguyen obtained BS in Civil Engineering from Northeastern University in 1974, the MS in Structural Engineering from University of California, Berkeley in 1976, and PhD from University of Iowa in 1982. He is currently a Professor in the department of Civil and Environmental Engineering, Old Dominion University, where he is also the director of the multidisciplinary parallel vector computation center.