

# CCSU

DEPARTMENT OF MATHEMATICAL SCIENCES

## COLLOQUIUM

Friday, May 1

2:00 – 3:00 PM

Maria Sanford, Room 101

### **IMAGE PROCESSING GUIDE TO UNDERGRADUATE MATH**

#### **EUGENE GALPERIN**

**EAST STROUDSBURG UNIVERSITY**

**Abstract:** Image processing techniques will be used to illustrate several basic concepts in undergraduate mathematics. The most elementary topics will include histograms, percentiles, power functions, and piecewise-linear functions. Transformation of random variables will be discussed in the context of image equalization. Topics from linear algebra will be related to image compression and the continuous and discrete versions of the uncertainty principle.

*For further information:*

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<http://www.math.ccsu.edu/gotchev/colloquium/>