

1116-G5-2434 **Yevgeniy V. Galperin*** (egalperin@esu.edu), 200 Prospect Ave, East Stroudsburg, PA 18301.
An Image Processing Approach to a One-Semester Calculus Course.

We review the library of functions in the context of image-enhancement transformations and contrast stretching. We introduce the derivative in the context of several derivative-based edge detection methods, which accelerates the students' understanding of the definition and allows for the introduction of partial derivatives at an earlier stage. This approach also provides the students with a motivation to undertake projects relevant to their major fields. (Received September 22, 2015)