



Applications of Mathematica in Electrical Engineering

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University of Southern Maine

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UMaine, Orono

Abstract

In the 1980s and early 1990s, computers and computer algebra (CA) systems were used to transform how undergraduate calculus was taught and learned. Despite significant gains in functionality and performance over the past decade, adoption of these systems in engineering educations seems extremely limited. However, a modern CA system such as Mathematica can play a very useful pedagogic role in teaching and learning electrical engineering. In this talk I will describe how Mathematica is used in teaching an undergraduate linear signals and systems course at the University of Southern Maine and in the process will highlight some of its present-day capabilities.

Bio

Dr. Mariusz Jankowski received the Ph.D. in Electrical Engineering from the City University of New York in 1989. He is currently an Associate Professor of Electrical Engineering at the University of Southern Maine. His primary research interests are in the development of image processing algorithms for image enhancement, segmentation, shape description, and recognition with application to biomedical imaging and computer vision. He has received awards and funding from the Ames Laboratory (DoE), Maine Science and Technology Foundation, National Science Foundation, University of Southern Maine and Wolfram Research. Dr. Jankowski is the author of the Digital Image Processing application package, a commercial image processing software product based on Mathematica, a modern system for mathematical computing.

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