

1154-Q1-2713 **Itai Seggev*** (is+research@cs.hmc.edu), Urbana, IL. *Using Complex Visualization to Enhance Understanding of DE Solution Techniques.*

Many solution techniques, especially those popular in engineering, involve complex analysis. These include Laplace transforms, Fourier transforms, and complex potentials. Complex numbers are less familiar to students, and in general are hard to visualize. In this talk we survey techniques for visualization of complex-valued functions and functions of complex variables from the view of how they can bring insight to differential equations solution techniques. (Received September 17, 2019)