



The Department of Mathematics

Presents

Jesse Wang, Ph.D.

The founder and CEO of Enosh Company

Friday, February 17, 2017

@ 12:00PM in PB 192

How much do you know about the Simpson's Rule?

Abstract:

This presentation will focus on the well-known Simpson's rule, and some of the fundamental numerical quadrature rules, and their applications in scientific fields. The rate of convergence of these rules are investigated numerically, and the advantage of using Simpson's rule is shown.

For the purpose of handling weakly singular functions, Conventional Simpson's rule is generalized to weighted Simpson's rule. Using a method of estimating the discretization error for weighted Simpson's rule provides results which are used to obtain the convergence rates of a numerical method (collocation) for solving integral equations with various singular kernel functions.

About the speaker: Jesse Wang graduated from Fresno State in 1969. In 1974, he graduated from Washington State University with a Ph.D in Computer Science, and received his MBA from the University of Chicago in 1995. He served as professor and chair for the Department of Math and Computer Science at The Chicago State University from 1983-1996. He is currently the founder and CEO of Enosh Company,