1116-92-1126        **Olcay Akman\*** (`oakman@ilstu.edu`), Department of Mathematics, Box 4520, Normal, IL 61790. *Computing Intensive Methods in ODE Modeling.*

We introduce and implement Engineered Genetic Algorithm and Particle Swarm Optimization to select parameters for compartmental models. We examine the performances of both techniques and compare our results to those obtained with Engineered Genetic Algorithm (Akman and Schaefer, 2014). (Received September 17, 2015)