Proceedings of the 2017 Winter Simulation Conference
W. K. V. Chan, A. D'Ambrogio, G. Zacharewicz, N. Mustafee, G. Wainer, and E. Page, eds.

LOOKING BEYOND THE MODEL: DATA INPUT, COLLECTION, AND ANALYSIS WITH SAS® SIMULATION STUDIO

Ed Hughes

SAS Institute Inc.
500 SAS Campus Drive
Cary, NC 27513, USA

Emily Lada

SAS Institute Inc.
500 SAS Campus Drive
Cary, NC 27513, USA

ABSTRACT

Discrete-event simulation as a methodology is often inextricably intertwined with many other forms of analytics. Source data often must be repaired or processed before being used (indirectly or directly) to characterize variation in a simulation model. Collection of simulated data needs to coordinate with and support the evaluation of performance metrics in the model. Or it might be necessary to integrate other analytics into a simulation model to capture particular complexities in the real world system. We show how SAS Simulation Studio, as an integral part of the SAS analytic ecosystem, enables you to tackle all of these challenges. You have full control over the use of input data and the creation of simulated data. Strong experimental design capabilities mean you can simulate for all needed scenarios. Additionally, you can embed any SAS analytic program—optimization, data mining, or otherwise—directly into the execution of your simulation model.