Announcing the Final Examination of Afrīfah Bobbie for the degree of Doctor of Philosophy

Time & Location: July 7, 2016 at 11:00 AM in Engineering 2 312L
Title: A SIMULATION-BASED EVALUATION OF EFFICIENCY STRATEGIES FOR A PRIMARY CARE CLINIC WITH UNSCHEDULED VISITS

In the health care industry, there are strategies to remove inefficiencies from the health delivery process called efficiency strategies. This dissertation proposed a simulation model to evaluate the impact of the efficiency strategies on a primary care clinic with unscheduled “walk-in“ patient visits. The simulation model captures the complex characteristics of the Orlando VAMC primary care clinic. This clinic system includes different types of patients, patient paths, and multiple resources that serve them. Added to the problem complexity is the presence of patient no-shows characteristics and unscheduled patient arrivals, a problem which has been until recently, largely neglected. The main objectives of this research was to develop a model that captures the complexities of the Orlando VAMC, evaluate alternative scenarios to work in unscheduled patient visits, and examine the impact of patient flow, appointment scheduling, and capacity management decisions on the performance of the primary care clinic system. The results show that only appointment scheduling rules and capacity management decisions had significant impact on the performance of the primary care clinic with unscheduled patient visits. It is recommended that in the future the clinic addresses the problem of serving unscheduled patients from an integrated scheduling and capacity view point.

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Bachelor's of Industrial and Systems Engineering, BS, 2007, University of Florida, Gainesville, FL
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Approved for distribution by Waldemar Karwowski , Committee Chair, on June 23, 2016.

The public is welcome to attend.