Dynamics Of Human Motion The Case Study of an Examination Hall SAMUEL OGUNJO, Federal University of Technology, Akure, OLUWASEYI AJAYI, Center for Information Networking and Telecommunication City College of New York (CCNY),, IBIYINKA FUWAPE, EMMANUEL DANSU, Federal University of Technology, Akure — Human behaviour is difficult to characterize and generalize due to ITS complex nature. Advances in mathematical models have enabled human systems such as love interaction, alcohol abuse, admission problem to be described using models. This study investigates one of such problems, the dynamics of human motion in an examination hall with limited computer systems such that students write their examination in batches. The examination is characterized by time (t) allocated to each students and difficulty level (dl) associated with the examination. A stochastic model based on the difficulty level of the examination was developed for the prediction of student's motion around the examination hall. A good agreement was obtained between theoretical predictions and numerical simulation. The result obtained will help in better planning of examination session to maximize available resources. Furthermore, results obtained in the research can be extended to other areas such as banking hall, customer service points where available resources will be shared amongst many users.

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