

A GA based lambda error assessment for yearly stock forecast: A manufacturing case study.

Maricar M. Navarro

Industrial Engineering Department
Technological Institute of the Philippines
Aurora Blvd , Cubao Quezon City
maricar_misola@yahoo.com

Bryan B. Navarro

Electrical Engineering Department
Technological Institute of the Philippines
Aurora Blvd, Cubao Quezon City
bryanbnavarro@yahoo.com

Abstract

Forecasting is a method used to determine the path of future trends. Historical data is significant for any forecasting technique. Organizations utilize forecasting to determine how to allocate their resources or plan for projected payments for an upcoming period of time. This is normally based on the projected demand for the goods and services they offer. This paper will use forecasting technique by integrating genetic algorithm for lambda assessment. This paper resulted that the GA lambda assessment approach will give better predictability.

Keywords

Maricar M. Navarro is an Assistant Professor in the Department of Industrial Engineering at the Technological Institute of the Philippines. She earned B.S. in Industrial Engineering from Technological Institute of the Philippines-Quezon City, Masters in Engineering major in Industrial Engineering from Mapua Institute of Technology, Manila Philippines. She has published journal and conference papers. Engr. Navarro has done research projects that deals on optimization of production, warehouse operations and service operations. Her research interests are production engineering that includes manufacturing, simulation, optimization, facility layout and design and etc., She is a Professional Industrial Engineer, ASEAN Engineer, and active member of Philippine Institute of Industrial Engineers (PIIE) organization in the Philippines.

Bryan B. Navarro is an Assistant Professor in the Department of Electrical Engineering at the Technological Institute of the Philippines and currently a Staff Engineer at Manila Electric Company (MERALCO). He earned B.S. in Electrical Engineering from Technological Institute of the Philippines, Quezon City, Masters of Science in Electrical Engineering major in Power System from University of the Philippines, Diliman, Quezon City. He has published journal and conference papers. He is an active member of Institute of Integrated Electrical Engineers of the Philippines (IIEE).