16. BELLO O. A., O.D. Akanji, O.M Adetutu, F.A. Ogunolu. (2017)." The Statistical Periscope for Analyzing the Effect of Selected University Ranking Indicators on Citations Directed to The Scientific Activities in the University of Technology, Minna" 1st International Annual Conference of Nigeria Statistical Society. University Of Ibadan. http://repository.futminna.edu.ng:8080/jspui/handle/123456789/8311

1st INTERNATIONAL CONFERENCE

APRIL 2017

Theme:

STATISTICAL RESEARCH AND IT'S APPLICATIONS

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APRIL 3-6, 2017

VENUE:

CONFERENCE CENTRE,

University of Ibadan, Ibadan, Nigeria.

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seeks to suggest the use of Statistical Process Control (SPC) tools to monitor and Control quality characteristics of seeds.

Keywords:Manufacturing Process, Statistical Process Control, Control Chart, Exponentially Weighted Moving Average (EWMA).

C12

The Statistical Periscope for Analysing the effects of Selected University Ranking Indicators on Citations Directed to the Scientific Activities in the University of Technology, Minna

A. O. Bello [1*], O.D. Akanji[1], O. M. Adetutu [1*], F. A. Oguntolu[2]
[1]Departent of Statistics, Federal University of Technology, Minna, Nigeria
[2]Departent of Mathematics, Federal University of Technology, Minna, Nigeria
oyedele.bello@futminna.edu.ng[1*], ola.adetutu@futminna.edu.ng[1*]

Abstract

The university's research performance evaluation is often left to the external evaluators while only few of the higher institutions have internal mechanism of bibliometrics-like. The mechanism presented in this research is to help the University have a personal assessment to answer questions such as how competitive is their research and how can they demonstrate their research influence? However, bibliometrics is a valid form of assessment only it is of generalized approach; the model obtained in this work is expected to be able to periscope the unique nature of scientific activities in FUT Minna. The university raking indicators used in this research were sourced from google scholar, research gate, the University resipository and through questionnaire. The observations were treated as qusi-experimental designs. The linear method of response surface methodology and Pgf plots graphical method were used. Pgf plots are visualization tool package in Latex Editor, based on tikz, a parametric plot. From the adequacy of model analyses, the causal effect of independent variables (x_i); funding, international collaboration, Staff Ranking, Equipments, number of publication on Citation were highly significant. The obtained model was used to fit possible number of citation (y_i) for differently assumed factors' state (values) and graphical method was used to compare each paired factors to the number of citation on 3D plots. The Citation analysis from the obtained model indicates the Expected Citation Rate (ECR) is low among the staff with high number of publications and 12% of research publication is responsible for 78.9% of citation accrued to the University. Multidisciplinary citation effect is low, however, when assumed to be high the possible number of citation increased greatly on the Pgf plots. H-index for individual staff scientific research output is little above average with ratio 1:2.6 in a year. Using contours and 3D plots, the factors; funding, international collaboration and multi-disciplinary research is at saddle point. The ratio of number of publication to citation is on the average low. Author on open access journals with high impact factor attracted more citation than authors on non-open access journals.

Keywords: Pgf plots graphical method, University ranking indicators, bibliometrics, Open Access journal, Polynomial Regression method and probability plots

C13

Statistical Neural Network Analysis of Impact of Oil Spill on Land Degradation in the Niger Delta Region of Nigeria

CG Udomboso[1], OO Ilori[1], OA Falode[2,3]
1. Department of Statistics, University of Ibadan, Ibadan, Nigeria
2. Department of Petroleum Engineering, University of Ibadan, Ibadan, Nigeria
3. Centre for Petroleum Energy, Economics and Law (CPEEL), University of Ibadan, Ibadan, Nigeria
cg.udomboso@gmail.com, iloriolamides@gmail.com, falodelias@gmail.com

Abstract

Oil spillage is one of the greatest environmental problems Nigeria is currently battling with especially in the Niger Delta region. It has resulted into widespread contamination of the environment with severe threat to immediate communities as well as sustainable development. Oil spill are major source of chemical pollution, with at least 300 different chemicals that negatively affect the surrounding soils, and hence agricultural productivity as well as quality of life. The data for this present study were obtained from the Department of Petroleum Resources as well as the Food and Agriculture Statistics 2014 Yearbook. In this paper, we forecast future spills and its corresponding effects on forest degradation using the Artificial Neural Network. The results show an alarming future unless appropriate actions are taken by the government, oil companies, as well as the communities under threat. Furthermore, this

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