



Christopher A. Moturi

1. Profile

Christopher A Moturi is currently the Director, ICT Centre of the University of Nairobi. He is also the Deputy Management Representative for ISO. Prior to that, he was Deputy Director, School of Computing and Informatics, where he has worked since 1986. He has long experience in University Management that includes management of the ISO9001 Quality Management System, Lead Internal Quality Auditor, Head of Department, Course Coordinator, Examinations Officer; membership in Top University Boards: University Management Board, Senate, Dean's Committee, College Management Board, and College Academic Board; Teaching for over 30 years, Curriculum Development, Research and Consultancy. He has mentored hundreds of students at both undergraduate and postgraduate levels, many who have gone on to develop successful careers. He has published 47 papers and articles in peer reviewed journals and successfully supervised over 70 postgraduate students.

2. Academic Qualifications

MSc in Computer Science, Aston, UK, 1988

PGDip in Computer Science, University of Nairobi, 1986

BSc in Mathematics University of Nairobi, 1985

3. Management/Administrative Appointments

3.1 March 2017 to present: Director, ICT Centre, University of Nairobi

Key Responsibilities

Under the general supervision of the Vice-Chancellor:

- a) Carry out ICT strategic planning
- b) Provide leadership in the planning, development, implementation, operation and maintenance of IS/ICT
- c) Provide leadership in human resources recruitment and development
- d) Develop budgets and procure hardware, software, services and facilities necessary for the operation of the ICT Centre
- e) Develop, implement and enforce IS/ICT services, policies and standards
- f) Monitor and evaluate all the operations and functions of the ICT Centre

3.2 March 2015 to present: Deputy Management Representative, ISO 9001 Standard

Key Responsibilities

- a) Ensure the University complies with requirement of the ISO 9001 Standard
- b) Ensure processes needed for the Quality Management System are established, implemented and maintained
- c) Promote awareness of requirements of ISO9001:2008 throughout the University
- d) Promote customer requirements across the University
- e) Identify risks and opportunities and ensure mitigation measure are implemented
- f) Ensure correction, corrective and preventive actions are effectively taken
- g) Prepare internal quality audit analysis reports for University ISO Steering Review Committee
- h) Report to university Top Management on the performance of the Quality Management System

3.3 November 2007 to 2017: Deputy Director, School of Computing and Informatics

Key Responsibilities

- a) Develop and review curricula
- b) Process student admission
- c) Ensure effective delivery of academic programmes
- d) Coordinate examinations
- e) Clear and graduate students
- f) Oversee human resource recruitment, development and performance
- g) Ensure physical facilities and infrastructure are maintained and utilized

3.4 1989 to 2001: Course Coordinator, School of Computing and Informatics

Key Responsibilities

- Coordination of all undergraduate and postgraduate programmes at the School, including application, admission, teaching, examination, counseling, industrial attachment, student projects and graduation

4. Academic Appointments

February 2005 to Present: Promoted to Senior Lecturer, School of Computing and Informatics

1986 to 2005: Promoted from Tutorial Fellow, Assistant Lecturer and Lecturer at School of Computing and Informatics

5. Experience in University Administration and Management

2005 to Present: Member of Top University Boards: Senate, Dean's Committee, College Management Board, College Academic Board, School Board, Quality Management System, Internal Quality Auditors

March 2015 to present: Deputy Management Representative, ISO9001

March 2011 to present: Chairman, University Management Board Committee to Review the University ISO 9001 QMS

March 2011 to present: Team Leader, Annual Internal Quality Audit Refresher Training

March 2008 to March 2015: Lead Internal Quality Auditor, ISO9001

August 2011 to 2012: Performance Contract Coordinator, College of Biological and Physical Sciences

March - July 2011: Team Leader, University Consultancy Team for the Preparation of UNES for QMS Certification

June 2010: Chairman, University Management Board Committee to Assess the Implementation and Long Term Sustainability of the University ISO 9001 QMS

March 2008 to March 2015: Chairman, University Management Board Technical Committee for Internal Quality Audit Analysis and Reporting

2009 to 2012: University Representative to the KEBS Technical Committee on Tertiary Education Services Technical evaluation

2008 to 2016: Chairman of University Tender Processing Committee for Procurement of various University ICT Goods and Services

2002 to 2007: Coordination of ICT consultancy and training. Major clients include Telkom Kenya, Central Bank, Controller and Auditor General, KARI, KRA, IUCEA and Postal Corporation

1997 to 2007: Management of income generating activities within the SCI. This includes proposal writing, marketing, report preparation, costing, payments and project coordination

6. Key Management Reports

March 2008 to Date: Prepared 17 Internal Quality Audit Analysis Reports for the University Management Board

March 2008 to Date: Prepared 10 KEBS Surveillance Audit Reports for the University Management Board

April 2017: Analysis Report of the Third QMS Recertification Audit for University Management Board

April 2014: Analysis Report of the Second QMS Recertification Audit for University Management Board

April 2011: Analysis Report of the First QMS Recertification Audit for University Management Board

June 2010: Assessment of the Implementation and Long Term Sustainability of the University ISO 9001 Certified QMS for University Management Board

November 2016: Fifth Review of the University Quality Management System for University Management Board

March 2015: Fourth Review of the University Quality Management System for University Management Board

July 2013: Third Review of the University Quality Management System for University Management Board

March 2011: Second Review of the University Quality Management System for University Management Board

2008 to Present: University Tender Committee Reports on Evaluation, Inspection and Acceptance of ICT various Equipment

March 2011 to 2014: Reports on Annual IQA Refresher Training for University Management Board

7. Experience in Teaching

Taught, for over 25 years, courses to both undergraduate and postgraduate students covering: Database Design and Management, Software Engineering, Information Systems Security and Auditing, Electronic Commerce, Management Information Systems, Business Process Reengineering, ICT Project Management, ICT Procurement.

8. Research Interests

E-Procurement, Information Systems Frameworks, Information Systems Security, Innovative applications of database systems, E-Business, Software Engineering, ICT procurement

9. Experience in Curriculum Development

Master of Science (IT Enabled Services) - 2016

Master of Science (Applied Computing) - 2012

Master of Science (Computational Intelligence) - 2012

Master of Science (Distributed Computing Technology) - 2012

Master of Science (Information Technology Management) – 2012
Master of Science (Computer Science) – 2005
Master of Science (Applied Computer Science) – 2004
Master of Science (Information Systems) – 1998, 2001, 2005
Postgraduate Diploma in Computer Science – 2005
Postgraduate Diploma in Information Systems – 2001, 2005
Bachelor of Science (Computer Science) – 1993, 2000, 2004, 2010, 2017
Bachelor of Education (ICT) – 2008
Bachelor of Science (Computer Technology) – 2000
Diploma in Computer Science – 2000, 2004, 2010

10. Experience in Consultancy

Lead Consultant, Management and Administration of Agriculture Sector Database, Ministry of Agriculture, February 2010

Team Leader, Review of Software in the Health Sector in Kenya, Ministry of Health, January to July 2009

Team Leader, Design, Development, Implementation and Maintenance of the Kenya Knowledge Network (KNET), Institute of Policy Analysis and Research (IPAR), www.kenyagranary.or.ke, May to December 2008

Team Leader, Review and Certification of Software, Kenya Railways Corporation, July to Nov 2006

Team Leader, Design, Development and Implementation of Dynamic, Database-driven Website for Inter-University Council for East Africa, Oct 2004 to Feb 2005

Consultant in the evaluation of Kenya Revenue Authority Tender for the Supply and Implementation of an Integrated Customs Systems, Dec 2003

Participated in writing many consultancy proposals for UNES, 2005 to date

Coordinator for ICT Training Programmes (Oracle, Unix, Windows NT/2000, Web Design, Software Engineering, PC Troubleshooting, Java, C++) for corporate clients (Telkom Kenya, Central Bank, Controller and Auditor General, Min of Finance, KARI, and Postal Corporation)

11. Key Training Received

ISO 9001:2015 Management Representative by KEBS (2016)

ISO 9001:2015 Lead Auditor by KEBS (2016)

ISO 9001:2008 Lead Auditor by KEBS (2014)

ISO 9001:2008 Internal Quality Auditor by KEBS (2007)

Basic Counseling by Kenya Institute of Professional Counselors (2012)

Customer Service by Steadman Trains (1999)

Training of Information Analysts by Indian Institute of Management, Ahmedabad, India (1991)

12. Experience in Postgraduate Supervision

MSc Projects:

2016

1. An Assessment of Green ICT Effect on Sustainable Environment in Institutions of Higher Learning in Kenya – Irine Samoei
2. An Assessment of Data Governance at Kenya Health Professionals Regulatory Authorities – Victor Were
3. Social Engineering Threats and Mitigations in e-Commerce Platforms in Nairobi Locality – Lawrence Mwangoti Mwasambo
4. An Evaluation of e-Government Portal: Case of Nairobi City County – Irene Njoroge
5. Towards an Internet of Things Architecture for Quality Monitoring System in Kenya – Victor Omondi Oburu
6. Citizen Centric Evaluation of Accessibility of ICT Services for Persons with Disability: A Case Study of Huduma Centres in Kenya– Daniel Maina
7. Barriers to e-Procurement Adoption by Small and Medium Enterprises in Machakos County– Angelini Ngui
8. e-Logistics Implementation among Logistics Service Providers in Kenya – Morris Mutisya
9. ICT Adoption in the Management of TVET Institutions in Kenya: A Validation of TOE Framework– James Mwamgi Kuria
10. An Assessment of the Implementation of the Kenya eCitizen ICT Project – Bethseba Ondego

11. Application of Extended Technology Acceptance Model in Predicting E-Procurement Utilization in Independent Commissions in Kenya – Joyce Sang
12. Cloud Computing Adoption in Insurance Companies in Kenya – Meshack Akhusama
13. Leveraging Internet of Things (IoT) in combating road traffic in African Cities: a case for Nairobi City, Kenya – Lucas Omollo

2015

14. Effect of IT Outsourcing on Performance of Banks in Kenya: Application of the Balanced Score Card – Vivian Mungai
15. Adaptation of the Balanced Scorecard Model in Performance Measurement of E-Government Services: Case of Kenya Revenue Authority – Grace Akinyi
16. Information and Communication Technology Talent Management Alignment with Outsourcing: Case of Kenya Power – Moses Ngugi
17. Adoption of Cloud Computing In Medium and High Tech Industries in Kenya - Pauline Wanjiku
18. High Availability Systems in Kenya: Application of Design – Reality Gap Model to Enhance Success – Solomon Chege
19. IT Risk Management in e-Governance: Case for the Cargo Clearance Process in Kenya - Kennedy Karanja
20. ICT Infrastructure Sharing Framework for Mobile Operators in Kenya – Charles Malungu
21. A Policy Framework of Information Systems for Credit Unions – Samuel Oronje
22. A Framework for Implementing Healthcare Data Warehouses in Kenya: A Case of Public Hospitals – Frankline Murungi
23. Use of Smartphone in Agricultural Research – Luka Wanjohi

2014

24. Agents-based Security Model for Cloud database applications - Mourice Guya
25. Application of Data Mining Classification in Employee Performance Prediction – John Kirimi
26. Towards Judicial Data Warehousing and Data Mining – Rahab Mburu
27. Use of Data Mining to Check the Prevalence of Prostate Cancer: Case of Nairobi County – Mary Ngaruiya
28. Application of GIS in Auto Insurance Risk Segmentation and Rating: A Case for Nairobi County - Samuel Ruugia
29. Application of Data Mining in Pharmaceutical Imports in Kenya – Victor Kahonge
30. Security in Health Workforce Information Systems: A Case of Regulatory Human Resource Information System – Marriane Mong’eri
31. Evaluating the Quality of Management Information Systems: A case of SACCOs in Nairobi, Kenya – Prester Mbiwa
32. Application of GIS to Tuberculosis infection Case of Kitui County - Fredrick Musika

2013

33. Knowledge Based Student Academic Advising in Institutions of Higher Learning In Kenya - Moses Karani
34. Biometric Authentication: A Case for The Nairobi Securities Exchange - Paul Rureri
35. Design of Generic Information Systems Contingency Plan for Microfinance Institutions in Kenya - Justin Mosbey

2012

36. A Multi-Agent Model for System User Access Rights Audit - Fredrick Okoth Bitta
37. A MapReduce Tool for Data Mining and Data Optimization - Silas Maiyo
38. A GPS Server With Data Mining and Road Mapping - James Obuhuma
39. A Framework for e-Government Development: Case of Kenyan Government - Wilfred Olal
40. Use of GIS for Food Emergency Response - Benjamin Otieno
41. A Framework for Assessing the Impact of Digital Villages in Kenya - Loice Atieno
42. A Data Warehouse for a Public University - Alfred Emurugat
43. A Framework for Assessing Readiness for Implementation of Continuous Auditing in Public Sector - Peter Gaitho
44. A Framework for Addressing Weather Forecasting Challenges Using Wireless Sensor Networks - Daisy Ireri
45. A Model Contingency Plan for a University - Godfrey Karugu

2011

46. A Framework of Knowledge Management for Wildlife Research - Anuradha Khoda
47. Agent Based System for Real Time Database Audit Monitoring - Boniface Akuku
48. Improving Decision Making through Business Intelligence: Case of Kenyan ISP - Kendi Mutungi
49. Early Warning Disease Response System - Robert Kinuthia
50. Last Mile Mobile Broadband Connectivity for Rural Kenya - Charles Nyota
51. A Framework for Implementation of Business Process Outsourcing in Kenya - Julius Gichohi
52. A Framework for Digital Forensics for Kenyan Courts of Law - Obwaya Mogire
53. Electricity Load Forecasting Model - Francis Kioko

2010

54. E-Procurement Model for the Public Sector in Kenya - Grace Malela

2009

55. E-Readiness of Microfinance Institutions in Kenya - Dorothy Kalui

2008

56. Electronic Payment Technologies for Domestic E-Commerce in Kenya - Udogwi

2007

57. Accounts Reconciliation System for Microfinance – Bernard Ogweno

2006

58. A Strategy for Implementation of ISO 9000 QMS in ICT Industry in Kenya – James Kimuyu

2005

59. Impact of Use of ERP in Manufacturing Companies in Kenya – Paul Koske
60. Challenges Facing Sustainability of ICT in Kenyan High Schools – Patrick Ndungu
61. Data Analysis using OLAP – Paul Mwakale
62. A Work and Organization Based Approach to Assessing ERP Systems – Winston Warui

2004

63. Framework for Development of Information Systems Auditing Capability – Catherine Ndungu
64. Initiation, Adoption and Implementation of Electronic Commerce

2003

65. Online Epidemiological Health Systems – Kamigwi
66. Application of GIS on Natural Resource Management – Richard Odongo

2002

67. State of E-Commerce in Kenya – Sylvester Kisonzo

Postgraduate Diploma

1986 – 2002: A total of 38 Postgraduate Diploma in Computer Science Projects

13. Publications

1. Were, V.E., Moturi, C.A., (2016), Towards a Data Governance Model for the Kenya Health Professional Regulatory Authorities. *The TQM Journal*, Accepted
2. Kalui, D.M., Moturi, C.A., Muketha, G.M., & Tarus, J.K. (2017). An Investigation into Customers' Requirements for Electronic Banking: A Case Study of Microfinance Institutions in Kenya. *International Journal of Innovation in the Digital Economy*, 8(2), 39-54.
3. Mwasambo, L.M., Moturi, C.A., (2016), Experience in Social Engineering by eCommerce Platforms in Kenya. *British Journal of Applied Science & Technology*, 18(2): 1-12
4. Kirimi, J.M., Moturi, C.A., (2016), Application of Data Mining Classification in Employee Performance Prediction. *International Journal of Computer Applications* 146(7): 28-35

5. Wanjiku, P.W., Moturi, C.A., (2016), Cloud Computing: Transforming Medium and High Tech Industries in Kenya, *Proceedings of the IST- Africa 2016 Conference*, Durban, South Africa
6. Muiruri, C.K., Ruhui, S. & Moturi, C.A., (2016). A Hybrid Algorithm for Detecting Web Based Applications Vulnerabilities. *American Journal of Computing Research Repository*, 4(1): 15-20
7. Ondego, B.M., & Moturi, C.A., (2016). Evaluation of the Implementation of the e-Citizen in Kenya, *International Journal of Applied Information Systems*, 10(4):13-21
8. Akhusama, P.M., & Moturi, C.A., (2016). Cloud Computing Adoption in Insurance Companies in Kenya, *American Journal of Information Systems*, 4(1): 11-16
9. Sang, J., & Moturi, C.A., (2016). Predicting E-Procurement Utilization in Independent Commissions in Kenya, *International Journal of Applied Information Systems*, 10(5): 12-17
10. Moturi, C.A., Mburu, R., & Ngaruiya, N., (2016). A Case for Judicial Data Warehousing and Data Mining in Kenya, *American Journal of Computing Research Repository*, 4(1): 7 - 14
11. Moturi, C.A., & Ngugi, M.N., (2015). Information and Communication Technology Talent Management Alignment with Outsourcing: Case of a Power Company in Kenya, *International Journal of Services, Economics and Management*, 17(1): 1 - 23
12. Oronje, S.L., & Moturi, C.A., (2015). Implementation Framework for Information Systems Policy for Fraud Control in Credit Unions, *American Journal of Computing Research Repository*, 3(2): 18 - 26
13. Moturi, C.A., & Mbithi, P. M.F., (2015). ISO 9001: 2008 Implementation and Impact on the University of Nairobi: a Case Study, *The TQM Journal*, 27(6): 798 - 813
14. Moturi, C.A., & Mbiwa, P., (2015). An Evaluation of the Quality of Management Information Systems used by SACCOs in Kenya, *The TQM Journal*, 27(6): 752 - 760
15. Kalui, D.M., & Moturi, C.A., (2015). E-Readiness assessment of microfinance institutions in Kenya, *Information and Knowledge Management*, 5(10): 61 - 80
16. Akinyi, G.L., Moturi, C.A., (2015). Application of IS-Balanced Scorecard in Performance Measurement of e-Government Services in Kenya, *American Journal of Information Systems*, 3(1): 1-14

17. Malungu, C.B., Moturi, C.A., (2015). ICT Infrastructure Sharing Framework for Developing Countries: Case of Mobile Operators in Kenya, *International Journal of Applied Information Systems*, 9(4):17-24
18. Moturi, C.A., Kahonge, V.W., (2015), Association Analysis of Pharmaceutical Imports in Kenya, *International Journal of Computer Applications Technology and Research*, 4(6), 467 - 474
19. Moturi, C.A., Emurugat, A., (2015), Prototyping an Academic Data Warehouse: Case for a Public University in Kenya, *British Journal of Applied Science & Technology*, 8(6): 550-557
20. Ngaruiya, N., Moturi, C.A., (2015), Use of Data Mining to Check the Prevalence of Prostate Cancer: Case of Nairobi County, *Proceedings of the IST- Africa 2015 Conference*, Lilongwe, Malawi
21. Mungai, V.W., Moturi, C.A., (2015), Effect of Information Technology Outsourcing on the Performance of Banks in Kenya: Application of the Balanced Scorecard, *IOSR Journal of Business and Management*, 17(3), 83 - 89
22. Wekesa, B., Miriti, E., Moturi, C.A.,(2015), Agent-based Vulnerability Assessment of Government Web Applications, *NNGT Int. J. on Internet and Web Applications*, Vol 2, 1 -6
23. Ruugia, S.K., Moturi, C.A., (2014), Application of GIS Spatial Interpolation Methods in Auto Insurance Risk Territory Segmentation and Rating, *10th Operations Research Society of Eastern Africa (ORSEA 2014) International Conference*, School of Business, University of Nairobi, October 16-18, 2014
24. Moturi, C.A., Gaitho, P.N., (2014), Embracing Continuous Auditing: A Case for Public Sector in Kenya. *British Journal of Economics, Management & Trade*. 4(11): 1643 - 1654
25. Moturi, C.A., Kinuthia, R.M., (2014), Mobile based Notifiable Disease Surveillance - Case for Kenya. *International Journal of Computer Applications*, 95 (7): 22 - 30
26. Mwachha, S.M., Waiganjo, P.W., Moturi, C.A., Masinde, E.M., (2014), Intelligent System for Predicting Agricultural Drought for Maize Crop. *International Journal of Technology Enhancements and Emerging Engineering Research*, 2(4): 51 - 54
27. Atieno, L.V., Moturi, C.A., (2014), Implementation of Digital Village Projects in Developing Countries - Case of Kenya. *British Journal of Applied Science & Technology* 4(5): 793-807
28. Moturi, C.A., Karugu, G.C., (2014), Embracing Contingency Planning for University Information Resources. *British Journal of Applied Science & Technology* 4(3): 492-509

29. Moturi, C.A., Kinu, G.G., Kahonge, A.M., (2013), A Process Model for Enterprise Application Integration: Case for a Customs Department. *International Journal of Applied Information Systems* 6(2):1-16
30. Moturi, C.A., Otieno, B., (2013), ICT and Food Security: Case of GIS in Food Emergency Response. *International Journal of Applied Information Systems* 6(1):40-47
31. Musika, F, Moturi, C.A., (2013), Spatial Visualization and Analysis of Tuberculosis infection Case of Kitui County. *Proceedings of ESRI Eastern Africa User Conference, Kenyatta University, September 2013.*
32. Moturi, C.A., Mutungi, K., (2013), Improving Decision Making in an ISP through Business Intelligence, *Asian Journal of Business and Management (ISSN: 2321 – 2802)*, Vol. 1- No.2, pp 54-64
33. Moturi, C.A., Kioko, F.K., (2013), Use of Artificial Neural Networks for Short-Term Electricity Load Forecasting of Kenya National Grid Power System, *International Journal of Computer Applications*, Vol. 63- No.2
<http://www.ijcaonline.org/archives/volume63/number2/10439-5123>
34. Moturi, C.A., Bitta,F.O., (2013), A Multi-Agent Model for System User Access Rights Audit, *ISACA Journal*, Vol. 3
35. Moturi, C.A., Nyota,C.T., (2012), Filling the Digital Divide in Rural Connectivity: Case for Last Mile Mobile Broadband Subscription. *International Journal of Computing and ICT Research*, Vol. 6, Issue 2, pp 46-63. <http://www.ijcir.org/volume6-issue2/articler5.pdf>
36. Obuhuma, J.I., Moturi, C.A., (2012), Use of GPS with Road Mapping for Traffic Analysis, *International Journal of Scientific & Technology Research*, Vol. 1, No. 10,
<http://www.ijstr.org/final-print/nov2012/Use-of-GPS-With-Road-Mapping-For-Traffic-Analysis.pdf>
37. Moturi, C.A., Maiyo, S.K., (2012), Use of MapReduce for Data Mining and Data Optimization on a Web Portal, *International Journal of Computer Applications*, Vol. 56- No.7,
<http://research.ijcaonline.org/volume56/number7/pxc3882945.pdf>
38. Kamunya, S.M., Ayienga, E.M., Moturi, C.A., (2012), A Performance Evaluation of Mobile Agents in Network Management, *Proceedings of the UNESCO-HP Workshop on Brain Gain*, Kenya School of Monetary Studies, Nairobi, Kenya

39. Khoda, A., Moturi, C.A., (2012), Benefits of Adopting Knowledge Management in the Key Contributor to the Kenyan Economy, *African Journal of Business and Management (AJBUMA)*, Vol.2, <http://www.aibuma.org/journal/ejournal.htm>
40. Atieno, L.V., Moturi, C.A., Wagacha, P.W., Orwa, D., Ogutu, J., Wausi, A., (2012), Successful Implementation of Digital Village Projects: A Factor to Economic Empowerment at the Community Level, *3rd African International Business and Management Conference*, Nairobi, Kenya
41. Omina, J., Kahonge, A.M., Moturi, C.A., (2012), An Intelligent Traffic Light Control System Based on Fuzzy Logic Algorithm, *Proceedings of the 1st Annual International Interdisciplinary Conference*, Catholic University of Eastern Africa, Nairobi, Kenya
42. Khoda, A., Moturi, C.A., (2011), A Framework for Knowledge Management of Wildlife Research in Kenya, *Proceedings of the 2nd African International Business and Management Conference*, Nairobi, Kenya, <http://www.aibuma.org/proceedings2011/proceedings.htm>
43. Pokhariyal, G.P., Moturi, C.A., Hassanali, J., Kinyanjui, S.M., (2004), Simulation Model for Dental Arch Shapes in Humans, *East African Medical Journal*, 81, 599-602, 2004
44. Rodrigues, A.J., Moturi, C.A., (1994), Simulating Plant Pathogen Epidemics, *Proceedings of the 4th International Conference on Information Technology*, edited by S.O. Ojo, D.J. Parsons & J.A. Ige, Printing and Publishing Company of Botswana, pp 124-129
45. Rodrigues A.J. Pokhariyal, G.P., Moturi, C.A., (1994), Reviews of Logistic Type Models in Plant Pathogen Epidemiology, *Proceedings of the 6th International Conference on Scientific Computing*, University of Benin, Benin City, Nigeria
46. Rodrigues, A.J., Moturi, C.A., Scott, R.J.P. Okelo-Odongo, W., (1993), Informatics in Higher Education Kenya Case Study, *Higher Education Policy Journal of the International Association of Universities*, Paris, France, Vol. 6, No. 3, pp 41-49
47. Moturi, C.A., Rodrigues, A.J., (1992), Training of Information Analysts at the University of Nairobi. *Proceedings of Information Technology Manpower: Key Issues for Developing Countries*, edited by Professor S.C. Bhatnagar, Tata McGraw Publishing Company, New Delhi, India, pp 103-114