

DR. KELVIN KABETI OMIENO, Ph.D

BSc. (Computer Science-First Class Honors), MSc. IT, PhD. BIS



1. PERSONAL INFORMATION

**Date of Birth:** 12<sup>th</sup> March, 1984  
**Place of Birth:** Busagwa Village, Busia County  
**Citizenship:** Kenyan  
**Telephone:** +254 726-849197/ +254 734-849197  
**Marital Status:** Married  
**Residence:** Kakamega , Kakamega District  
**Language:** English, Kiswahili, Luhya  
**Address:** Box 1910-50100 Kakamega, Kenya  
**Religion:** Christian  
**Website:** <http://www.kelvinomieno.com>  
**Email (s):** [komieno@mmust.ac.ke](mailto:komieno@mmust.ac.ke) or [kelvinkabeti@yahoo.com](mailto:kelvinkabeti@yahoo.com)

2. EDUCATION

**Postgraduate**

Jaramogi Oginga Odinga University of Science and Technology, Kenya

PhD in Business Information Systems (2013-2016).

*Thesis Title: "Usability Maturity Assessment for Virtual Learning Systems in Kenya"*

*Supervisors: Dr. George Raburu, Dr. Pamela Raburu & Prof. Omollo Ongati*

Masinde Muliro University of Science and Technology, Kenya

MSc. in Information Technology (2009-2012).

*Thesis Title: "A Framework to Measure Intranet Usage in Kenyan Public Universities"*

*Supervisors: Prof. Patrick J. Ogao & Mr. Simon M. Karume*

**Undergraduate**

Masinde Muliro University of Science & Technology, Kenya

Bachelor of Science (Computer Science), **First Class Honors** (2004-2008).

*Specialization: "Software Engineering"*

**High School {Kenya Certificate of Secondary Education}**

Teremi High School, 2002: 6 Plain A's and A- Aggregate Score

3. BRIEF RESUME

Dr. Kelvin Kabeti Omieno is a Lecturer and Ag. Dean, School of Computing and Informatics (SCI), Masinde Muliro University of Science and Technology, Kenya ([www.sci.mmust.ac.ke](http://www.sci.mmust.ac.ke)). He holds a PhD in Business Information Systems of Jaramogi Oginga Odinga University of Science & Technology (Kenya). Besides, he has MSc in Information Technology and **First Class Honors** Bachelor of Science in Computer Science from Masinde Muliro University of Science and Technology (Kenya). Dr. Omieno has been involved in a number of research projects of ICTs and development, including computational grid project, Health Informatics, E-learning systems and E-waste management in Kenya. Besides, he has published widely in journals and conference proceedings in Information technology and ICTs for development. He is a professional member of the Association for Computing Machinery (ACM), the largest association of computing professionals globally and is a reviewer with three International Journals.

#### 4.1. TEACHING EXPERIENCE

**October 2013- Present: Lecturer**, Department of Computer Science, *Masinde Muliro University of Science & Technology, Kakamega-Kenya*

**November 2012-October 2013, Assistant Lecturer**, Department of Computer Science, *Masinde Muliro University of Science & Technology, Kakamega-Kenya*

**January 2009-October 2012, Graduate Teaching Assistant**, Department of Computer Science *Masinde Muliro University of Science & Technology, Kakamega-Kenya*

#### 4.2. OTHER UNIVERSITY-LEVEL APPOINTMENTS

##### 4.2.1 PART-TIME TEACHING

**In the process of gaining exposure and technical skills, I have taught in several other universities in Kenya including:**

- a) *Jomo Kenyatta University of Agriculture & Technology-Kenya*,
- b) *Jaramogi Oginga Odinga University of Science and Technology,-Kenya*
- c) *Kibabii University (while a constituent College of MMUST),-Kenya*
- d) *Mount Kenya University,-Kenya*
- e) *Kenya College of Accountancy University (KCAU) -Kenya*

##### 4.2.2 NON-TEACHING APPOINTMENTS

1. **Acting Dean**, School of Computing and Informatics, Masinde Muliro University of Science and Technology-Appointed by Vice-Chancellor
2. **Member**, Library ICT Committee, Appointed by Vice-Chancellor
3. **Member**, Task force on Transforming MMUST into Paperless University by 2017, Appointed by Deputy Vice Chancellor (Planning, Research and Innovation)
4. **Member**, Steering Committee for MMUST Professional Centre, Appointed by Deputy Vice Chancellor (Planning, Research and Innovation)
5. **Internal Quality Auditor** on ISO 9001:2008 standard and QMS Documentation
6. **Member**, Joint Management Committee on Collaboration between Tswane University of Technology (SA) and MMUST (Kenya)
7. **Member** of Deans Committee and various other University Senate Committees, and short-listing committees for teaching and non-teaching staff

#### 5. RELEVANT EXPERIENCE

##### 5.1. TEACHING, APPRAISAL & SCHOLARSHIPS

###### (a) Taught Courses

Over Seven (7) years of teaching experience at Masters, Undergraduate and diploma levels

###### **Masters Courses Taught:**

- ❖ Advanced Database Systems
- ❖ Information Systems
- ❖ Object Oriented Analysis and Design
- ❖ Research Methodology
- ❖ Advanced Cryptography and Security Analysis **amongst others**

###### **Undergraduate Courses Taught:**

- Introduction to Programming
- Procedural programming
- Data Structures and Algorithms
- Fundamentals of computing
- Systems Analysis and Design
- Object Oriented Programming
- Object Oriented Analysis and Design
- Logic Programming
- Mobile Application Programming
- Digital Logic
- Programming with C#
- Computer networks

- Software Engineering
- Operating Systems
- Multimedia systems and Graphics
- Database systems
- Computer Architecture
- Network Design and Implementation

**Programming languages –**

Pascal, C, C++, PHP, Java, Python, VB.NET, Prolog, C#, J2ME, Java Script, XDK

**Environments:** Custom Software Development, Mobile App Development, Web App Development

**Diploma level:**

- Object oriented Programming, Rapid Application Development, Computer skills and applications, Procedural Programming, Web development and Software Engineering

**Programming languages –** VB 6.0, C, C++, Java, HTML, CSS, VB Script

**(b) Appraisal performance and Commendations**

- **Vice Chancellor’s Commendation** during the 1<sup>st</sup> MMUST Gala Dinner and 2015 Awards Ceremony-1<sup>st</sup> December 2015, MPH, MMUST
- Typically, 70% - 90% performance as evaluated by students
- Staff performance appraisal has been Exceeds Expectations year-by-year

**(c) Scholarships**

- 2009-2011: MMUST Partial University Scholarship for MSc in IT, MMUST
- 2004-2008: Joint Admissions Board (JAB) and Higher Education Loans Board, Kenya for Undergraduate programme, MMUST

**(d) Student Thesis Supervision**

S/No	Name	Thesis Title	Status
1	Mr. Kennedy Ondimu (PhD, IT-MMUST)	Visual Analytics for Business Process Improvement in Healthcare	Ongoing
2	Mr. Samson Munialo (PhD, IT-MMUST)	An Effort Estimation Method for Service Oriented Architecture Systems Based on Size Metrics	Ongoing
3	Mr. John Ndia (PhD, IT-MMUST)	A Complexity Metrics Model for Analyzing the Maintainability of Sassy Cascading Style Sheets	Ongoing
4	Mr. Michael Ujunju (PhD IT, MMUST)	Resource Usage Control Approach for Secure Multi-Tenant Application Environments in Cloud Computing Systems in Kenya	Ongoing
5	Mr. Augustine Prince Ngomeh (MSc IT, MMUST)-	Security Architecture in Mobile Banking in Kenya	Ongoing
6	Mr. Hillan Rono (MSc, IT-MMUST)	An Interoperability Framework for E-Government Heterogenous Information Systems, Kenya	Ongoing
7	Mr. Victor Kamina (MSc IT-MMUST)	A Model for Cyber Security Vulnerability Assessment in County Governments, Kenya	Ongoing
8	Mr. Samuel Shitote (MSc IT-MMUST)	Optimization of Content Management System to Improve Website Ranking in Organizations	Ongoing
9	Mr. Adrian Oteng’i (MSc IT, MMUST)-)	Successful Factors for Mobile Learning Adoption in Kenyan Universities	Ongoing

**(e) Thesis Examination**

- i. **Abdi Halima (MMUST, 2016)**- Influence of Information Communication Technology on dissemination of agricultural market information to vegetable farmers in Vihiga County, Kenya-MSc

- ii. **Khanda Jackson** (MMUST, 2016)- A Framework for Mobile Payment Adoption in Kenyan Secondary Schools-MSc
- iii. **Bethwel Kipchirchir Okello** (MMUST, 2015)- Evaluation of the Learnability Principles of Mobile-Wireless Information Systems' Application Software for Children in Kenya-MSc
- iv. **Kabii Cosmas Muthama** (MMUST, 2015)- A Framework to Evaluate the Impact of Open Source Software in a software Market in Kenya-MSc
- v. **Emily Tarus** (MMUST, 2015)- Contribution of ICT to Extension Service Delivery for Horticulture Farmers in Uasin Gishu County, Kenya-MSc
- vi. **Chebet Willyster Mibei** (MMUST, 2014)- Integrating Computer Technology in learning Cell Biology in Secondary Schools in Kenya-MSc
- vii. **Peter Soita** (MMUST, 2014) - Factors Affecting Software Project Implementation in Public Universities-MSc

## 5.2 FUNDED RESEARCH PROJECTS & CONSULTANCIES

### 5.2.1 Research Interests

ICT4D, Technology-Supported Learning, E-Science and E-Governance

### 5.2.2 Research Projects

#### a) Current Projects

- **Co-Researcher** in a Multi-Disciplinary Research Grant Proposal for Funding by National Research Fund (NRF) by the title “**A Model and Implementation Framework for Internet of Things (IoT) Based Big Data Analytics System for Disaster Prediction and Management**”, **Shortlisted** for Funding in 2016/2017 FY
- **Team Leader**: Submitted a Proposal for Infrastructure Support Call by National Research Fund (NRF) by the title “**Capital Development and Capacity Building for Learning and Business Incubation Centre at Masinde Muliro University of Science and Technology**”, Submitted for 2016/2017 FY

#### b) Previous Projects

- UNESCO-HP, Developing “**E-learning Content**” for E-waste management program (August 2011 to Nov. 2014)
- HP Catalyst Initiative, Masinde Muliro University of Science & Technology  
Computational Chemistry Grid project: “**Virtual Chemistry Lab- simulators**” (Sept. 2011 to August 2014)

### 5.2.3 Consultancies

- Bid for Consultancy services to Develop Bulk SMS systems and Project Monitoring systems for Elgeyo-Marakwet County, Sept 2016 Funded by UNDP.
- Director and Founder, Kelsoft Technologies Ltd, IT solutions firm. [www.kelsoft.ac.ke](http://www.kelsoft.ac.ke)
- Kibabii University, Kibabii University Website ([www.kibabiiuniversity.ac.ke](http://www.kibabiiuniversity.ac.ke) )
- Bucodev, Community Development Programme, Busia-Kenya ([www.bucodev.org](http://www.bucodev.org) )

## 5.3 ADMINISTRATION AND RESPONSIBILITIES

- a) **Ag. Dean**, School of Computing and Informatics, Masinde Muliro University of Science and Technology (3<sup>rd</sup> January 2017 to Date)

### Duties/ Responsibility

- Articulating and Implementing the Mission and Objectives of the School
- Convening and Chairing School Board Meetings
- Represent the School of Computing in the Deans Committee, Senate and other Boards of the University as required
- Promoting and maintaining a conducive working environment within the School
- Planning and Budgeting for the School
- Preparing School of Computing and Informatics reports
- Overseeing Examinations as Chief Examiner in the School
- Managing Academic Programmes in the School as required by Senate
- Supervising and Appraising the performance of academic and other staff in the School
- Making recommendations with respect to discipline, probation, advancement, and promotion of academic staff within the School

### Some of Achievements

- ❖ Developed Two Draft Postgraduate programmes to be launched by May 2017: MSc in Computer Science, MSc in Information Systems.
- ❖ Developed School of Computing and Informatics 2016-2020 Strategic Plan
- ❖ Developed proposal creating Research Group known as “**Software Incubation Research Group**” – SIRG’17 and Chair of the Research Group
- ❖ Lead a Senate Team in Writing Report on Management of Graduate, ODeL and SOLACE Students in MMUST
- ❖ Revised Curriculum for Bachelor of Technology Education (Computer Studies) and approved by Senate on 13<sup>th</sup> January 2017.
- ❖ Involved in the recruitment of Prof. John Gallagher (from UK) as Adjunct Professor of Computer Science

- b) **Chairman**, Department of Computer Science, Masinde Muliro University of Science and Technology (**21<sup>th</sup> August 2014 to 2<sup>nd</sup> January 2017**)

### Duties/ Responsibility

- Articulating and Implementing the Mission and Objectives of the Department
- Convening and Chairing Departmental Board Meetings
- Represent the Department in the Faculty, School, Institute, Centre or Board, Senate and other Boards of the University as required
- Promoting and maintaining a conducive working environment within the Department
- Planning and Budgeting for the Department
- Preparing Departmental reports
- Overseeing Examinations as Chief Examiner in the Department
- Managing Academic Programmes in the department as required by Senate
- Supervising and Appraising the performance of academic and other staff in the Department
- Making recommendations with respect to discipline, probation, advancement, and promotion of academic staff within the Department

### Some of Achievements

- ❖ Spearheaded the creation of School of Computing and Informatics (SCI) of Masinde Muliro University of Science and Technology.
- ❖ Developed BSc in Information Systems and Knowledge Management programme for MMUST with first KUCCPS intake in Sept. 2016/2017.
- ❖ Spearheaded the development of Bachelor of Technology Education (Computer Studies/Maths) Programme with first KUCCPS intake in Sept. 2016/2017
- ❖ Developed MSc in Information Systems and BSc in Computer Security and Forensics degree programme to start in 2016/2017 September Intake under PSSP
- ❖ Developed TVET programmes: Diploma in Technology in Computer Systems and Diploma in Software Development Programme
- ❖ Reviewed 4 programmes: BSc in Computer Science, BSc in IT, MSc in IT and PhD in IT based on CUE standards and guidelines
- ❖ Registered MMUST as an Oracle Academy Centre
- ❖ Spearheaded the recruitment of 3 Adjunct Professors in Computer Science: Prof. Patrick J. Ogao (Kenya), Prof. Sunday O. Ojo (SA) and Prof. Olugbara Oludayo (SA)
- ❖ Spearheaded recruitment of 4-teaching staff, as Lecturers in 2014/2015 academic year: Mr. Michael Ujunju, Ms. Dorothy Apondi, Mr. Jasper Ondulo and Dr. Samuel Liyala.
- ❖ Oversaw Furnishing computer laboratory with machines and furniture (N-Computing/Thin-Client Technology)
- ❖ Ensured resumption of admission of MSc and PhD students in IT, at MMUST whereby to date department has students on study.

- c) **Ag. Dean**, Faculty of Science, Masinde Muliro University of Science and Technology (**25<sup>th</sup> November 2014 to 28<sup>th</sup> November 2014**)

- ✓ Attend university meetings
- ✓ Chaired 1<sup>st</sup> Ad-Hoc Committee Meeting organizing for the 1<sup>st</sup> International Conference to be held in 2015

- d) **Ag. Chairman**, Department of Computer Science, Masinde Muliro University of Science and Technology (12<sup>th</sup> July 2014 to 20<sup>th</sup> August 2014)

**Duties/ Responsibility**

- Attend senate meetings
- Convening and Chairing Departmental Board Meetings
- Represent the Department in the Faculty, School, Institute, Centre or Board, Senate and other Boards of the University as required
- Promoting and maintaining a conducive working environment within the Department
- Planning and Budgeting for the Department
- Preparing Departmental reports

- e) **Ag. Chairman, Departmental Graduate Studies Committee**, Depart. of Computer Science (Jan. 2014 to August 2014)

**Duties/ Responsibility**

- Chairing DGSC meetings
- Board Member, School of Graduate Studies
- Scheduling for DGSC board meeting by Liaising with Chairman, Computer Science Dept.
- Organizing for graduate seminars during the period

**Some of Achievements**

- Organized three (3) departmental graduate seminars
- Helped 6 Phd students graduate and several masters students in July 2014 and Dec 2014 graduations

- f) **Secretary to Departmental Graduate Studies Committee**, Depart. of Computer Science (March. 2013 to August 2014)

- Writing Minutes of DGSC proceeds
- Scheduling for DGSC board meeting by Liaising with Chairman, DGSC

- g) **Coordinator, Research and Publications**, Depart. of Computer Science (March 2013 to Aug. 2014)

- Organizing for departmental seminars and workshops
- Coordinating research work in the department including postgraduate research
- Coordinating exhibitions by department
- Organizing research publications in the department
- Coming up with proper ISO procedures and documents to aid in effective processing of postgraduate proposals and thesis, in the department.

- h) **Member, Seminars and Workshops**, Faculty of Science-MMUST (March 2013-to Nov. 2014)

- Organizing for seminars and workshops in the faculty of science
- Developing strategic plan for seminars and exhibitions in the faculty
- Assembling and disseminating research publications by the faculty members

- i) **Departmental Publication, Conference, Workshops and Exhibitions coordinator**, MMUST (Feb. 2011 – Feb. 2013)

- Involved in organizing ICT conference at MMUST
- Organizing publications and exhibitions in the department

- j) **Secretary, MMUST Innovation Team (2012 to January 2014)**

Aims at creating University short programs on innovation, Leadership and Professional development and ICT & Pedagogy

- k) **Departmental Examinations Coordinator (2010/2011 Academic year)**

- Diploma and Certificate examinations where there was streamlining of overall examination processing in the department, MMUST

l) **Other Activities/Achievements**

- **Chaired** Senate and Deans Committee that led to Restructuring of School of Graduate Studies to Board of Postgraduate Studies to streamline postgraduate matters in university, January 2017
- Member of MMUST Marketing Team of the University
- **Chairing**, Review Committees on Departmental Academic Programmes to conform with Commission for University Education guidelines
- Review of MSc in IT and PhD in IT degree programmes to conform to CUE guidelines
- Developed Draft MMUST Antiplagiarism Policy to be approved by University Senate
- Participated in Reviewing Diploma and Certificate curriculum in Information Technology
- Participated in reviewing BSc in Information Technology programme to conform to Commission of Higher Education standards (CUE)
- Participated in developing proposed MSc in Computer Forensics programme

6. PROFESSIONAL AFFILIATIONS AND OTHER ACTIVITIES

- A Professional Member, Association of Computing Machinery (ACM).  
Member No: **5904126**
- Board Member, Busia Community Development Programme, a Non-Gov't Organization

7. PUBLICATIONS, CONFERENCES AND WORKSHOPS

7.1. PUBLICATIONS AS LECTURER

7.1.1. Books and Book Chapters & Modules

- a) **Omieno K. & Matoke N (2014)**. Fundamentals of Computing: A Simplified Approach. A University Teaching Book. Published by Scholar's Press, Germany, ISBN: 978-3-639-70591-1
- b) **Omieno K, Otanga D, & Rambim D (2015)**. BCS 110-Fundamentals of Computing- University-wide e-Module. Published by Masinde Muliro University of Science & Technology

7.1.2. Refereed Journal papers

- a) **Omieno K.K & Rodriguez A. (2016)**. Usability Maturity Model and Assessment Tool for Virtual Learning Systems. *International Journal of Advanced Research in Computer and Communication Engineering*. (E-ISSN 2278-1021/ ISSN 2319 5940) Vol 5. No.12 December 2016 pp:78-84 DOI 10.17148/IJARCCE.2016.51217
- b) Omol, E.J., Abeka, S.O., **Omieno, K.K. (2016)**. Relevance of Demographic profile on Acceptance of Mobile Money Payment in Enterprise Management. A Case of MSEs in Kisumu City, Kenya. *MR Journal of Information Science and Technology*; ISSN: 2518-8844. Vol. 1, No. 1, pp. 35 - 43.
- c) Omol, E. J., Abeka, S. O., Ogalo, J. O., **Omieno, K.K. (2016)**. Mobile Money Payment Acceptance Model in Enterprise Management: A Case Study of MSE's in Kisumu City, Kenya. *MR Journal of Information Science and Technology*; ISSN: 2518-8844. Vol. 1, No. 1, pp. 1 – 12
- d) **Omieno K.K, Raburu P. & Raburu G. (2015)**. Performance-Based Usability Maturity Assessment Framework for VLS in Universities. *International Journal of Advanced Research in Computer and Communication Engineering*. (E-ISSN 2278-1021/ ISSN 2319 5940) Vol 4. No.12 December 2015 pp:6-14 DOI 10.17148/IJARCCE.2015.41202
- e) Shirandula A.H; Rono L. & **Omieno K (2015)**. Evolving Information Technology: Opportunities and Challenges. *International Journal of Computers and Technology*. ISSN:2277-3061 Volume 14 No. 8,May-2015 pp: 6001-6008
- f) **Omieno K.K, & Raburu G. (2014)**. Usability Maturity Indicators for Virtual Learning Systems. *Journal of Emerging Trends in Computing and Information Sciences*. (E-ISSN 2218-6301/ ISSN 2079-8407) Vol 5. No.5 May 2014 pp:377-382

- g) Kitone K.M & **Omiemo K.K (2013)**. Role of Information Systems in Organizational Business Process. *International Journal of Management and Information Technology*. ISSN:2278-5612 Volume 8 No. 1,Dec-2013 pp: 1214-1220  
<http://cirworld.com/index.php/ijmit/article/view/813200/2225>
- h) Okinyi M. O, **Omiemo K.K**, & Kitone K. M. (2013). The Value of Human Resource Information Systems in Human Resource Management *International Journal of Computers and Technology*. ISSN:2277-3061 Volume 11 No. 10,Dec-2013 pp: 3085-3089  
<http://cirworld.com/index.php/ijct/article/view/3190>

## 7.2. PUBLICATIONS AS ASSISTANT LECTURER

### 7.2.1. Books and Book Chapters & Modules

- a) **Kelvin Omiemo (2013)**. Rapid Application Development. A University teaching module. E-Learning Model, Published by Masinde Muliro University of Science & Technology
- b) **Kelvin Omiemo (2012)**. A Framework to Measure Intranet Usage in Kenyan Public Universities: Concepts, Design and Practices of Intranet usage. LAP Lambert Academic Publishing. ISBN: 978-3-659-22565-9

### 7.2.2. Refereed Journal Papers

- a) **Omiemo K.K**, Oenga L. & Raburu G. (2013). Usability Maturity Model for VLS: Conceptual Framework. *International Journal of Computers and Technology*. ISSN:2277-3061 Volume 6 No. 2,May-2013 pp: 317-320 <http://cirworld.com/index.php/ijct/article/view/1229>
- b) **Omiemo K.K** & Oenga L & Matoke N. (2013). The Use of Social Networking Sites in Education. Accepted for publication in *International Journal of Computers and Technology*. ISSN:2277-3061
- c) Wabwoba F., Mutua S. M & **Omiemo K.K**. (2013). A review of the role of Information and Communication Technology in meeting the millennium development goals and the vision 2030 in Kenya. *East Africa Journal of Engineering, Science and Technology*. Vol.1 No.2 ISSN: 2219-8598 Pp: 127-133
- d) **Omiemo K.K**, Wabwoba F. & Matoke N. (2013). Virtual Reality in Education: Trends and Issues. *International Journal of Computers and Technology*. ISSN:2277-3061 Volume 4 No. 1, Jan - Feb, 2013 pp: 38-43 <http://cirworld.com/index.php/ijct/article/view/717>
- e) Wabwoba F., Wanyembi G., Omuterema S. & **Omiemo K.** (2013). Green ICT Readiness Model for Developing Economies: Case of Kenya. 22(IJACSA) *International Journal of Advanced Computer Science and Applications*. U.S ISSN : 2156-5570(Online) U.S ISSN : 2158-107X(Print) Vol. 4, No.1.  
[http://thesai.org/Downloads/Volume4No1/Paper\\_8-Green ICT Readiness Model for Developing Economies Case of Kenya.pdf](http://thesai.org/Downloads/Volume4No1/Paper_8-Green ICT Readiness Model for Developing Economies Case of Kenya.pdf)
- f) **Omiemo K. K** & Khabamba I (2012). ICT in Disaster Risk Reduction: Kenyan Experience. *International Journal of Disaster Management and Risk Reduction*. ISSN: 1992-2744 Vol. 4(2).  
[http://www.admcrk.org/journal/abstract\\_14.php](http://www.admcrk.org/journal/abstract_14.php)
- g) **Omiemo K.K**. (2012) Integrating Virtual Reality in Education using Intranet Grids. *IOSR Journal of Engineering*. ISSN-2250-3021. Vol. 2(4) pp: 644-649  
[http://www.iosrjen.org/Papers/vol2\\_issue4/X024644649.pdf](http://www.iosrjen.org/Papers/vol2_issue4/X024644649.pdf)
- h) **Omiemo K.K**. & Wanyembi G. (2012) Managing Knowledge Sharing: Mutual understanding, Strategic Alignment and Contribution of Corporate Intranets in Knowledge Management in Kenyan Public Universities. *International Journal of Science and Technology*. ISSN-2224-3577. Vol.2.No.1.Pp:51-54 [http://ejournalofsciences.org/archive/vol2no1/vol2no1\\_8.pdf](http://ejournalofsciences.org/archive/vol2no1/vol2no1_8.pdf)



- i) **Omiemo K.K.**, Oteng' S.B.B & Khabamba I. (2012). Towards the negative roles of social networking sites on society. *International Journal of Disaster Management and Risk Reduction*. ISSN: 1992-2744 Vol.4. No.1 [http://www.ijdmrr.info/paper\\_1.pdf](http://www.ijdmrr.info/paper_1.pdf)

### 7.3. PUBLICATIONS AS TEACHING ASSISTANT

#### 7.3.1. Refereed Journal Papers

- a) **Omiemo K.K.**, Wanyembi G & Mbugua S. (2012) Integrating Virtual Worlds and Virtual Learning Environments in Schools in Developing Economies. *International Journal of Information and Communication Technology Research*. ISSN-2223-4985.Vol.2No.1.Pp:17-21 [http://esjournals.org/journaloftechnology/archive/vol2no1/vol2no1\\_3.pdf](http://esjournals.org/journaloftechnology/archive/vol2no1/vol2no1_3.pdf)
- b) Karume S.M & **Omiemo K.K.** (2011). Synergizing E-infrastructures Initiatives to Foster e-Research in Higher Education Institutions in Africa. *Journal of Emerging Trends in Computing and Information Sciences*. E-ISSN 2218-6301/ISSN:2079-8407.Vol.2.No.11.Pp:632-640 [http://www.cisjournal.org/journalofcomputing/archive/vol2no11/vol2no11\\_12.pdf](http://www.cisjournal.org/journalofcomputing/archive/vol2no11/vol2no11_12.pdf)
- c) **Omiemo, K. K.**, Kilwake J.H. & Wabwoba F. (2011) Promoting Quality Outcomes in Higher Education using new Learning Technologies. *Journal of Education and Social Sciences*. ISSN:2223-490X,Vol. 1. No.1. Pp: 145-151 (offline)
- d) Wabwoba F., **Omiemo K.K.**, Simiyu C.N. & Sisungu Z.W. (2011). The role of wireless technologies in taking education to rural villages in developing countries. *International Journal of Information and Communication Technology Research*. ISSN-2223-4985.Vol.1No.7.Pp:300-305 [http://esjournals.org/journaloftechnology/archive/vol1no7/vol1no7\\_2.pdf](http://esjournals.org/journaloftechnology/archive/vol1no7/vol1no7_2.pdf)
- e) **Omiemo, K.K.** & Karume M.S. (2011). Adaptability of intranet grids in HEIs to leverage Africa Connect Initiative. *International Journal of Information and Communication Technology Research*. ISSN-2223-4985.Vol.1No.7.Pp:292-299 [http://esjournals.org/journaloftechnology/archive/vol1no7/vol1no7\\_1.pdf](http://esjournals.org/journaloftechnology/archive/vol1no7/vol1no7_1.pdf)

#### 7.3.2. Refereed Conference Proceedings

- (a) **Omiemo, K.K.**, Karume M.S., & .Ogao J.P (2011) A framework to measure intranet Usage in HEIs: A case of Selected Kenyan Universities. *Proceedings of 7th International Conference on Computing and ICT Research in Special Issues on ICT for Development 2011*.ISSN:2223-490-8-1.Pp-182-197 <http://cit.mak.ac.ug/iccir/downloads/ICCIR11.pdf>
- (b) **Omiemo, K.K.**, Karume M.S., & .Ogao J.P (2011) The Grid as a driving force for e-learning and OERs. *Proceedings of 7th International Conference on Computing and ICT Research in Special Issues on ICT for Development 2011*. ISSN: 2223-490. Pp-298-312. <http://cit.mak.ac.ug/iccir/downloads/ICCIR11.pdf>
- (c) Karume S., & **Omiemo K.** (2011). Grid computing technology as a driving force for E-learning and Open Educational Resources in Africa. *IST-Africa 2011 Conference Proceedings, Paul Cunningham and Miriam Cunningham (Eds), IIMC International Information Management Corporation, 2011, ISBN: 978-1-905824-24-3*
- (d) **Omiemo, K.K.** (2010). ICT for Information economy through network-optimized computing. *Proceedings of the 1st Engineering, Science and Technology conference, Kenya 2010*. ISBN: 9966-779-11-6. pp: 156-160

#### 7.3.3. Conference Presentations

- a) **Omiemo, K.K.**, Raburu G, Raburu P 2015. A Usability Maturity Framework for Virtual Learning Systems. International Conference ....., JOOUST 7th and 8th June 2015

- b) **Omiemo, K.K.**, Khabamba I 2012. ICT in Disaster Risk Reduction: Kenyan Experience. International conference of Disaster Risk Reduction and Conflict Resolution for Sustainable Development 18th-20th July, 2012, MMUST, Kenya
- c) **Omiemo K.K.** & Wanyembi G 2012. Corporate Intranet as a vital tool for Knowledge management in Kenyan Universities. 13th STRATHMORE UNIVERSITY ANNUAL ICT CONFERENCE. ICT and Society: Adaptive Computing and Technologies. 7th and 8th September 2012.
- d) **Omiemo K.K.** 2012. Virtual Reality in Education: Trends and Issues. 13th STRATHMORE UNIVERSITY ANNUAL ICT CONFERENCE. ICT and Society: Adaptive Computing and Technologies. 7th and 8th September 2012
- e) Karume S.M. & **Omiemo K.K.** (2011). The grid as a driving force for e-learning and OERs in Africa. Oral presentations of 3rd ACDE Conference & General Assembly on Bridging the Development Gap in Africa through Open and Distance Learning 12th to 15th July, 2011, Dar es Salaam, Tanzania.  
[http://www.out.ac.tz/acde/index.php?option=com\\_content&view=article&id=64&Itemid=81](http://www.out.ac.tz/acde/index.php?option=com_content&view=article&id=64&Itemid=81)
- f) **Omiemo K. K.**, Karume S.M., & Ogao P.J (2011). Use of intranet grids in higher education institutions to leverage Africa grid connect Initiative. 12th STRATHMORE UNIVERSITY ANNUAL ICT CONFERENCE. 2nd and 3rd September 2011.
- g) **Omiemo, K.** & Wanyembi, G. (2010). Managing Knowledge Sharing: Mutual understanding, Strategic alignment and contribution of corporate intranets in Kenyan public Universities. Conference proceedings of 11th Strathmore University ICT conference, 2010, Kenya
- h) **Omiemo, K.K.** & Wanyembi, G. (2010). A Framework to measure corporate intranets use in institutions of higher learning: Case of Kenyan public Universities. Conference proceedings of 11th Strathmore University ICT conference, 2010, Kenya
- i) Wabwoba, F. & **Omiemo, K.** (2010). The Role of wireless technologies in taking education to rural villages in developing countries. Conference proceedings of 11th Strathmore University ICT conference, Nairobi, Kenya, 3-4 September, 2010, Kenya
- j) Karume, S. & **Omiemo, K.** (2010). Open knowledge resources and Research: The role of grid computing for knowledge creation and sharing, Proceedings of the 2nd International conference on Internationalization of Higher Education and Research in Africa: Responding to Opportunities and Challenges, Kampala, Uganda. 4th -5th November, 2010.  
<http://www.anienetwork.org/content/2nd-anie-annual-conference-presentations-kampala-uganda-4-5-november-2010-1>

#### 7.4. REVIEWER FOR INTERNATIONAL JOURNALS

Omiemo Kelvin is a reviewer with three International Journals:

- International Journal of Computers and Technology <http://cirworld.com/index.php/ijct/index>
- European Journal of Science and Engineering (EUJSE)  
[http://www.journalsgate.com/journalsgate/index.php?route=product/category&path=92\\_98](http://www.journalsgate.com/journalsgate/index.php?route=product/category&path=92_98)
- European Journal of Academic Research (EUJAR)  
[http://www.journalsgate.com/journalsgate/index.php?route=product/category&path=92\\_93](http://www.journalsgate.com/journalsgate/index.php?route=product/category&path=92_93)

#### 7.5. WORKSHOPS/ SEMINARS/ CONFERENCES

- (a) Organized for the 1<sup>st</sup> School of Computing and Informatics Inaugural Postgraduate Seminar, MMUST SPD 004, 27<sup>th</sup>-28<sup>th</sup> April 2017.
- (b) Attended Workshop on Africa Computer Human Interaction (AfriCHI'2016), University of Nairobi Towers, Nairobi, 21<sup>st</sup>-25<sup>th</sup> November, 2016
- (c) ISO 9001:2008 Standard and QMS Continual Improvement Training, Bishop Stam, Aug 29-30, 2016

- (d) Organized for 5<sup>th</sup> MMUST ICT Post-Graduate Seminar 29<sup>th</sup> March 2016- SPD 004, Masinde Muliro University of Science and Technology
- (e) Attended TVET stakeholders workshop at Bishop Stam, Kakamega for TVET Programmes March 2016
- (f) Attended Workshop on Module Writing by MMUST in Busia Farm view 7<sup>th</sup>-9<sup>th</sup> September 2015
- (g) Attended workshop training on Grant proposal writing by MMUST in Busia ATC, 1<sup>st</sup> -5<sup>th</sup> June 2015
- (h) Attended Workshop on Technical, Vocational, Education and Training in MCU, MMUST, 26<sup>th</sup> May 2015
- (i) Attended Training workshop on Confidentiality and Security of Information by NSIS, MMUST, 20<sup>th</sup>- 22<sup>nd</sup> May 2015
- (j) Attended workshop on Deans, Directors, Coordinators and HODs Induction organized by MMUST University Management, Bishop Stam- 28<sup>th</sup> April-29<sup>th</sup> April 2015
- (k) Organized for an International Women's Day Workshop, for Computing Students by Safaricom, MMUST, 19<sup>th</sup> March 2015
- (l) Organized for Public Lecture on Internet Critical Resources and Governance: The role of Academia by ICANN, MMUST, 29<sup>th</sup> January 2015
- (m) Organized for Workshop on Catalyzing employability skills by Microsoft and ACWICT, MMUST, 23<sup>rd</sup> January 2015
- (n) Published an Article in MMUST Magazine-" Eye on MMUST" on "*ICT Usage for Information Administration in MMUST*" October/December 2014 Pp: 19
- (o) Organized for Workshop on Mobile BootCamp for mobile applications development and USSD by iHub, Ushahidi and Africa's talking, MMUST, 14<sup>th</sup> -15<sup>th</sup> November, 2014
- (p) Auditors Training Workshop at Bishop Stam on ISO 9001:2008 and QMS Documentation- by Apex Management Systems Consultants 3<sup>rd</sup> -5<sup>th</sup> November 2014
- (q) Participated in 1<sup>st</sup> ICT seminar on the Theme: Emerging Trends in ICT held at MKU-Kakamega 16<sup>th</sup> Nov 2013
- (r) 3<sup>RD</sup> Departmental Seminar, Computer Science, MMUST. Paper Presented "**Which Way to Go: Open Access or Subscriptions Publications?**" 27<sup>th</sup> June 2013
- (s) Organized 2<sup>ND</sup> Departmental Seminar, Computer Science, MMUST. Paper presented "**The Importance of Research: Goals and Implications**" 28<sup>th</sup> March 2013
- (t) Workshop on Module Writing organized by School of Open Learning and Continuing Education (SOLACE), held in Busia-Kenya FarmView Hotel, February 2013. Module developed: DIT 052 Rapid Application Development
- (u) Workshop on the changing face of strategic management: development within a difficult global economy through technology, creativity and innovation for strategy policy implementation, Imperial Hotel Kisumu-Kenya by DALC-MIT, 8th Dec, 2011
- (v) Workshop on HIV and AIDs Integration in University, held at Busia ATC, Kenya from 4th July-6th July, 2012
- (w) 2nd Symposium on Academic Linkages on the theme: Academic linkages: strategies, opportunities, challenges and future. Technical paper presented "**Improving Virtual Knowledge Transfer: Strategies and Practice**", 3rd December, 2011, Masinde Muliro University of Science & Technology  
[http://www.mmust.ac.ke/index.php?option=com\\_content&task=view&id=376&Itemid=203](http://www.mmust.ac.ke/index.php?option=com_content&task=view&id=376&Itemid=203)
- (x) Published an Article in MMUST Newsletter on "**New Learning Paradigms: Why choose online Education at MMUST?**" Volume 1, Issue 12 July-August 2011
- (y) ISO 9001:2008 Training in Quality Management, MMUST, March 8-9, 2011 by KEBS
- (z) Workshop on Internationalization of higher education, ANIE workshop, Munyonyo-Resort, Kampala, Uganda, November 2- 3, 2010
- (aa)Teal –Research4Life and Prota Training Workshop, Masinde Muliro University, Kenya, May, 6 - 7, 2010

### 7.6. HONORS AND AWARDS

- a) 2016 Certificate of Participation in AfriCHI Workshops, Nairobi, Kenya
- b) 2015 Certificate of Participation in TVET workshop
- c) 2015 Certificate of Publication in Journal International Journal of Advanced Research in Computer and Communication Engineering
- d) 2015 Certificate of Participation in Module Writing by MMUST
- e) 2015 Certificate of participation in Deans, Directors, Coordinators and HODs Induction, by MMUST, Kenya
- f) 2014 Certificate as Internal Quality Assurance Auditor, by KEBS
- g) 2012 Certificate of participation in publishing article in IOSR Journal of engineering
- h) 2012 Certificate of participation in International Conference on Disaster Risk Reduction, MMUST
- i) 2011 Certificate of participation in 1st Engineering, Science & Technology conf., MMUST, Kenya.
- j) 2010 Certificate for completion of TEAL training, MMUST, Kenya
- k) 2008 Certificate for Completion of Database and Actuate Training, G7 Systems Kenya.
- l) 2007 Certificate for Industrial Attachment at G7 Systems Kenya.
- m) 2007 Certificate of participation: Budalang'i Constituency Education Day: Topic Controlling Aids among youths in Secondary schools, Busia, Kenya.
- n) 2007 Certificate for participation in IEEE exhibition by Centurion Systems, Nairobi, Kenya
- o) 2007 Award of First runners up in IEEE exhibition done at MMUST, Kenya

### 7.7. OTHER PERSONAL ATTRIBUTES

- i) Team- work and Self-determination
- ii) Experience in the development of web-based database systems
- iii) Willingness to travel both regionally and internationally.
- iv) Able to establish and maintain professional contacts with relevant people and organizations.
- v) Ability to think logically and implement solutions to problems.
- vi) Good communication ability in English, spoken and written.
- vii) Excellent interpersonal communication and good personal organization skills, including skills in mentoring and capacity building.
- viii) Good judgment and willingness to take initiative; ability to work under pressure often to meet tight deadlines without compromising the quality of deliverables

### 8. REFERENCES

- ❖ Prof. William Shivoga, Professor & Ag. DVC Planning Research and Innovation, Masinde Muliro University of Science & Technology, Box 190 Kakamega 50100 Kenya, Email: [shivoga@gmail.com](mailto:shivoga@gmail.com) Tel:0721 264 334
- ❖ Dr. George Raburu, School of Informatics and Innovative Systems, Jaramogi Oginga Odinga University of Science and Technology, E-mail: [graburu@yahoo.com](mailto:graburu@yahoo.com) Tel: 0700 911 917
- ❖ Prof. Egara Kabaji, Professor & Ag Principal, Turkana University College, [ekabaji@mmust.ac.ke](mailto:ekabaji@mmust.ac.ke) Tel: 0722646539
- ❖ .....
- ❖ .....

SIGN:...



June 17 : Dr. Kelvin K. Omieno, Ph.D