

Table of Contents

Track I: Communication Infrastructures for Developing Countries

Scenario to Serve Remote Areas in Emerging Countries with the Village Internet Service Station	1
<i>Gaël Fromentoux, Arnaud Braud, and Xavier Marjou</i>	
Enhancing Service Provisioning within Heterogeneous Wireless Networks for Emergency Situations	14
<i>Christian Lottermann, Andreas Klein, Hans D. Schotten, and Christian Mannweiler</i>	
Providing Some Quality of Service for Secondary Users in Cognitive Radios Using Time Slotted Systems	24
<i>Hudson Okii and Idris A. Rai</i>	
Fair Usage and Capping for Providing Internet for All in Developing Countries	35
<i>Yvon Gourhant, Ali Gouta, and Venmani Daniel Philip</i>	
OpenFlow as an Architecture for e-Node B Virtualization	49
<i>Venmani Daniel Philip, Yvon Gourhant, and Djamal Zeghlache</i>	
The White Space Opportunity in Southern Africa: Measurements with Meraka Cognitive Radio Platform	64
<i>Moshe T. Masonta, David Johnson, and Mjumo Mzyece</i>	
Strategies for Energy-Efficient Mobile Web Access: An East African Case Study	74
<i>Le Wang, Edward Mutafulungwa, Yeswanth Puvvala, and Jukka Manner</i>	
Scalable Scheduling with Burst Mapping in IEEE 802.16e (Mobile) WiMAX Networks	84
<i>Mukakanya Abel Muwumba and Idris A. Rai</i>	
A Pilot of a QoS-Aware Wireless Back-Haul Network for Rural Areas . . .	96
<i>Philipp Batroff, George Ghinea, Thorsten Horstmann, Karl Jonas, and Jens Moedeker</i>	
SolarMesh - Energy-Efficient, Autonomous Wireless Networks for Developing Countries	106
<i>Christian Mannweiler, Christian Lottermann, Andreas Klein, and Hans D. Schotten</i>	

Critical Information Infrastructure Protection (CIIP) and Cyber Security in Africa – Has the CIIP and Cyber Security Rubicon Been Crossed?	116
<i>Basie von Solms and Elmarie Kritzingen</i>	

Geographic Information System as a Tool for Integration of District Health Information System and Drug Logistics Management Information System in Malawi	125
<i>Patrick Albert Chikumba and Auxilia Nyaukaya Kaunda</i>	

Track II: Electronic Services, ICT Policy, and Regulatory Issues for Developing Countries

A Socio-technical Perspective on the Use of Mobile Phones for Remote Data Collection in Home Community Based Care in Developing Countries	135
<i>Nobubele Angel Shozi, Dalenca Pottas, and Nicky Mostert-Phipps</i>	

Open Source Software Solution for Healthcare: The Case of Health Information System in Zanzibar	146
<i>Yahya Hamad Sheikh and Abubakar Diwani Bakar</i>	

A Software Business Incubation Model Using ICTs for Sustainable Economic Development in Uganda	156
<i>Hugh Cameron, Benjamin Kanagwa, and Michael Niyitegeka</i>	

Crowdsourcing ICTD Best Practices	167
<i>Aaron Ciaghi and Adolfo Villafiorita</i>	

Information and Communication Technologies and Firms Productivity in Cameroon	177
<i>Pierre Valère Nketcha Nana and Christophe Péguy Choub Faha</i>	

e-Health for Rural Areas in Developing Countries: Lessons from the Sebokeng Experience	187
<i>Massimiliano Masi, Rosario Pugliese, and Francesco Tiezzi</i>	

On Development of a Collaborative ICT Infrastructure for Online HIV/AIDS Advisory Service Provision	197
<i>Simon Samuel Msanjila</i>	

Socio-technical Arrangements for mHealth: Extending the Mobile Device Use and Adoption Framework	208
<i>Tiwonge Davis Manda and Yamiko Msosa</i>	

Power Dynamics in E-commerce Adoption in Least Developing Countries: The Case of Dar-es-Salaam SMEs, Tanzania	218
<i>Salah Kabanda</i>	

The Expansion of the Siyakhula Living Lab: A Holistic Perspective	228
<i>Lorenzo Dalvit, Ingrid Siebörger, and Hannah Thinyane</i>	
Effect of Attitude towards SMS Technology and Its Applications on Blood Donation Behaviour	239
<i>Harry H. Gombachika and Maganizo D. Monawe</i>	
The Intelligent City Operations Centre: An Integrated Platform for Crisis Management	248
<i>Mweene Monze</i>	
Enabling New Interaction Forms and Applications through Next Generation Mobile Platforms for Urban and Rural Africa	258
<i>Kasper Løvborg Jensen and Gary Marsden</i>	
Author Index	261