ICT Unbounded, Social Impact of Bright ICT Adoption

Yogesh K. Dwivedi, Emmanuel Ayaburi, Richard Boateng, John Effah

► To cite this version:

Yogesh K. Dwivedi, Emmanuel Ayaburi, Richard Boateng, John Effah. ICT Unbounded, Social Impact of Bright ICT Adoption: IFIP WG 8.6 International Conference on Transfer and Diffusion of IT, TDIT 2019, Accra, Ghana, June 21–22, 2019, Proceedings. Springer International Publishing, AICT-558, 2019, IFIP Advances in Information and Communication Technology, 978-3-030-20670-3. 10.1007/978-3-030-20671-0 . hal-02294677

HAL Id: hal-02294677

<https://hal.inria.fr/hal-02294677>

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IFIP is the global non-profit federation of societies of ICT professionals that aims at achieving a worldwide professional and socially responsible development and application of information and communication technologies.

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Yogesh Dwivedi · Emmanuel Ayaburi ·
Richard Boateng · John Effah (Eds.)

ICT Unbounded, Social Impact of Bright ICT Adoption

IFIP WG 8.6 International Conference
on Transfer and Diffusion of IT, TDIT 2019
Accra, Ghana, June 21–22, 2019
Proceedings

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ISSN 1868-4238

ISSN 1868-422X (electronic)

IFIP Advances in Information and Communication Technology

ISBN 978-3-030-20670-3

ISBN 978-3-030-20671-0 (eBook)

<https://doi.org/10.1007/978-3-030-20671-0>

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Preface

The main goal of IFIP Working Group 8.6¹ is understanding the development, diffusion, adoption, and implementation of technology, systems, as well as the resulting information that is produced and how it is used. The 2019 IFIP Working Group 8.6 conference was held in Accra, Ghana, and was hosted by the University of Ghana. We are very grateful to the university and its members, especially the School of Business, for generously offering conference facilities at no charge.

The 2019 Conference of the IFIP WG8.6 focused on “Bright Information and Communication Technologies (ICT).” This proceedings volume examines people and organizational issues with the design, implementation, and use of Bright ICT in relation to the development of society. Bright ICT, a 2015 initiative of the Association of Information Systems introduced by Prof J. K. Lee, refers to the grand vision of a bright society enabled by ICT (Lee, 2015). The concept of Bright ICT entails the development of relevant technologies, business models, public policies, social norms, international agreements, metrics of measuring national progress, and preventing undesirable activities on the Internet. Bright ICT research involves taking a holistic view in the design of an ICT-enabled future society (Lee, 2015). The papers included in this volume present research and business models that offer opportunities to achieve the Bright ICT vision within the context of developing, transitioning, and emerging economies.

The adoption and diffusion of information technology (Dwivedi et al. 2017) have seen many dark sides such as the emergence of cyber criminals and the unethical use of ICT (Lee and Fedorowicz, 2018). This major twist from the good intention of adopting technology and Web-based services has affected developing and less developed economies. Organizations in these economies can benefit from the innovative use of ICT and the diffusion of mobile technologies within their customer base (Andoh-Baidoo, 2016). However, the less-developed economies generally lack the resources and capabilities needed to fight the negative effect of ICT (Dwivedi et al. 2015; Kamal et al. 2009). Research on ICT in the context of these economies that focuses on people and organizations is still scarce. The papers presented in the proceedings focus on proposing and testing theoretical models to address different ICT research problems.

The conference offered an opportunity for the presentation of research on the progress made in this endeavor and an opportunity to understand how the knowledge accumulated thus far translates into societal benefit. We particularly welcomed research that questioned how emerging technologies are adopted and appropriated in organizations and everyday life and the impact they are having. However, we also remained open and committed to the wider theme of the IFIP 8.6 working group. All papers were double-blind reviewed by at least two expert reviewers. We followed a constructive

¹ <http://ifipwg86.wikidot.com/>.

reviewing process. This resulted in 30 full-length papers and four short papers from a total of 72 papers submitted. In addition, 47 doctoral consortium projects were accepted to be presented at the pre-conference doctoral consortium and they do not appear in the proceedings. The acceptance rate of the papers in the proceedings is nearly 47%. We appreciate the members of the Program Committee for helping in the reviewing and selection process and providing their comments to us in a timely manner, thereby making this event possible.

This book is organized in five parts to reflect the themes of the papers. Part I includes papers that address technology adoption, diffusion, and ubiquitous computing in government and developing countries. Part II presents papers on big data and business intelligence implementation at the firm and country levels. Part III includes papers on smart cities involving different smart technologies ranging from analytics to smart home devices. Part IV presents papers that discuss security, privacy, ethics, and misinformation. The final part includes papers that examine different concepts in social media and open computing. The papers offer insightful contributions in the context of developing economies by providing recommendations that help mitigate the dark side of the Internet and realize the potential of existing and emerging technologies.

Our sincere thanks go to all the authors, reviewers, attendees, Program Committee members, program chairs, and the University of Ghana staff who all made the 2019 IFIP WG 8.6 conference a success. Special thanks to Prof. H. R. Rao and Prof. George Kasper for helping to bring this conference to Ghana.

April 2014

Yogesh Dwivedi
Emmanuel Ayaburi
Richard Boateng
John Effah

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Contents

Technology Adoption, Diffusion and Ubiquitous Computing

Neuroethics of Augmenting Human Memory Using Wearable Pervasive and Ubiquitous Technologies	3
<i>Kuribachew Gizaw</i>	
LabNet: An Image Repository for Virtual Science Laboratories.	10
<i>Ifeoluwatayo A. Ige and Bolanle F. Oladejo</i>	
Mobile App Stores from the User's Perspective	21
<i>Abdullah M. Baabdullah, Ali Abdallah Alalwan, Nripendra P. Rana, Ata Al Shraah, Hatice Kizgin, and Pushp P. Patil</i>	
The Adoption and Diffusion of Wearables	31
<i>Ton A. M. Spil, Björn Kijl, and Vincent Romijnders</i>	
Technical Support: Towards Mitigating Effects of Computer Anxiety on Acceptance of E-Assessment Amongst University Students in Sub Saharan African Countries	48
<i>Kayode I. Adenuga, Victor W. Mbarika, and Zacchaeus O. Omogbadegun</i>	
ICT Laws, Uncertainty Avoidance, and ICT Diffusion: Insights from Cross-Country Data	73
<i>Anupriya Khan and Satish Krishnan</i>	
Internet-Based Channel Orientation for Domesticated Services Firm: Some Drivers and Consequences.	90
<i>Michael Adu Kwarteng, Abdul Bashiru Jibril, Fortune Nwaiwu, Michal Pilik, and Maged Ali</i>	
Understanding the Factors Influencing Mobile Commerce Adoption by Traders in Developing Countries: Evidence from Ghana	104
<i>Mercy Kwofie and Joseph Kwame Adjei</i>	
A Literature Review of Mobile Payments in Sub-Saharan Africa.	128
<i>Richard Boateng and Maame Yaa Prempeh Sarpong</i>	
Explaining Technology Adoption with Financial Motivation.	147
<i>Joseph Budu, Jefferson Seneadza, Edward Entee, Michael Fosu, Bismark Tei Asare, and Charles Mensah</i>	

A Comparative Study of Business-to-Government Information Sharing Arrangements for Tax Reporting	154
<i>Rizky Amalia Kurnia, Dhata Praditya, and Marijn Janssen</i>	
Brightening Physical University Admission Through Digital Process Virtualization: An Action Case Study in Ghana	170
<i>John Effah</i>	
Use of Digital-Physical Security System in a Developing Country's Port: A Case Study of Ghana	180
<i>Fred Amankwah-Sarfo</i>	
Understanding the Adoption and Use of E-tail Websites: An Empirical Analysis Based on the Revised UTAUT2 Model Using Risk and Trust Factors	191
<i>Kayode Odusanya, Olu Aluko, and Banita Lal</i>	
Theoretical Framework for Digital Payments in Rural India: Integrating UTAUT and Empowerment Theory.	212
<i>Manisha Sharma and Sujeet K. Sharma</i>	
Big Data and Business Intelligence	
Impact of Business Intelligence on Firm's Performance in Cameroon	227
<i>Varelle Fossi Maffock, Samuel Fosso Wamba, and Jean Robert Kala Kamdjoug</i>	
Challenges of Identifying and Utilizing Big Data Analytics in a Resource-Constrained Environment: In the Case of Ethiopia	234
<i>Tigabu Dagne Akal, Tibebe Beshah, Stefan Sackmann, and Solomon Negash</i>	
Understanding Public Sector Enterprise Resource Planning System Implementation in Developing Countries: A Literature Review	255
<i>David Mpanga</i>	
A Framework for Cloud ERP System Implementation in Developing Countries: Learning from Lower Local Governments in Uganda	274
<i>David Mpanga and Amany Elbanna</i>	
Effect of Inter-Organizational Systems Use on Supply Chain Capabilities and Performance	293
<i>David Asamoah, Benjamin Agyei-Owusu, Francis Kofi Andoh-Baidoo, and Emmanuel Ayaburi</i>	

Smart Cities

Role of Smart Cities in Creating Sustainable Cities and Communities: A Systematic Literature Review	311
<i>Elvira Ismagiloiva, Laurie Hughes, Nripendra Rana, and Yogesh Dwivedi</i>	

A Bibliometric Analysis and Research Agenda on Smart Cities	325
<i>Samuel Fosso Wamba and Maciel M. Queiroz</i>	

Security, Privacy, Ethics and Misinformation

Authenticating Fake News: An Empirical Study in India	339
<i>Gautam Prakash, Ravinder Kumar Verma, P. Vigneshwara Ilavarasan, and Arpan K. Kar</i>	

Rumour Veracity Estimation with Deep Learning for Twitter	351
<i>Jyoti Prakash Singh, Nripendra P. Rana, and Yogesh K. Dwivedi</i>	

The Privacy Paradox of Utilizing the Internet of Things and Wi-Fi Tracking in Smart Cities	364
<i>Krystan ten Berg, Ton A. M. Spil, and Robin Effing</i>	

The Interplay Between Privacy, Trust and Self-disclosure on Social Networking Sites.	382
<i>Eli Fianu, Kwame Simpe Ofori, Richard Boateng, and George Oppong Appiagyeyi Ampong</i>	

A Rethink of the Nature and Value of IT Assets – Critical Realism Approach.	402
<i>A. Kayode Adesemowo</i>	

Understanding Internet Fraud: Denial of Risk Theory Perspective	415
<i>Martin Offei, Francis Kofi Andoh-Baidoo, Emmanuel Ayaburi, and David Asamoah</i>	

Virtual Social Networks as Public Sphere: Relating E-government Maturity, ICT Laws, and Corruption	425
<i>Jithesh Arayankalam and Satish Krishnan</i>	

Antecedents of Optimal Information Security Investment: IT Governance Mechanism and Organizational Digital Maturity	442
<i>Samuel Okae, Francis Kofi Andoh-Baidoo, and Emmanuel Ayaburi</i>	

Social Media and Open Computing

Social Media Presence & Usage in Indian Business Sector	457
<i>Anushruti Vagrani, Jenny John, P. Vigneswara Ilavarasan, and Arpan Kumar Kar</i>	
Bright ICT and Unbounded Employment: Typology of Crowdworkers and Their Lived and Envisaged Career Trajectory in Nigeria	470
<i>Ayomikun Idowu and Amany Elbanna</i>	
The Role of Social Media in Citizen’s Political Participation	487
<i>Abreham Getachew and Tibebe Beshah</i>	
Development of Resilient Health Information Infrastructure in Complex, Dynamic and Resource Constrained Health Care Context.	497
<i>Birkinesh Woldeyohannes Lagebo</i>	
Influence of Social Media Practices on the Fusion of Strategies Within Organisations	513
<i>Shirumisha Kwayu, Banita Lal, and Mumin Abubakre</i>	
Navigating Global Online Market Places (GOMPs) – An ADR Perspective	529
<i>Abayomi Baiyere, Thomas Jensen, Louise Fischer, Kalina Staykova, Michael Wessel, and Jonas Hedman</i>	
Bright ICT: Social Media Analytics for Society and Crisis Management	536
<i>Deborah Bunker, Stefan Stieglitz, Christian Ehnis, and Anthony Sleigh</i>	
Technostress Effect in Consumer Context: The Negative Effect of Following Social Media Influencers.	553
<i>Zainah Qasem</i>	
Author Index	561