. Record Nr.	UNINA9910254812303321
Titolo	Information and Communication Technologies for Development : 14th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries, ICT4D 2017, Yogyakarta, Indonesia, May 22-24, 2017, Proceedings / / edited by Jyoti Choudrie, M. Sirajul Islam, Fathul Wahid, Julian M. Bass, Johanes Eka Priyatma
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-59111-8
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVII, 850 p. 96 illus.)
Collana	IFIP Advances in Information and Communication Technology, , 1868- 422X ; ; 504
Disciplina	303.4833
Soggetti	Computers and civilization
	Application software
	Electronic data processing - Management
	Electronic commerce
	Software engineering
	Computers and Society
	Computer and Information Systems Applications
	IT Operations
	e-Commerce and e-Business
	Software Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro Preface Organization Contents Keynotes Facilitating Social Harmony Through ICTs Abstract 1 Introduction 2 Historical and Cultural Context 3 Barriers to the Adoption of ICT 4 Examples of ICT-Facilitated Social Harmony 5 Closing Thoughts and Future Directions Acknowledgements References Theoretical Framing of ICT4D Research Abstract 1 Introduction 2 Theories of Technology 3 Contextualizing the Study of ICT 3.1 Identifying Relevant Contextual Conditions and Processes 3.2 Identifying Relevant Domains of Context 4 Drawing from Theories of

1.

Socio-Economic Development -- 5 Putting Together Multiple Theories in the Framing of Empirical ICT4D Research -- 6 Conclusions --References -- Design, Needs, and Aspirations in International Development -- Abstract -- 1 Introduction -- 2 Accommodating Nonliterate Users -- 3 Not Enough -- 4 Problem-Solving, Neoliberalism, and Needs -- 5 From Needs... -- 6 To Aspirations -- 7 Conclusion --References -- Large Scale and Complex Information Systems for **Development -- Leveraging Software Platform Capabilities to Support** HIV (ART) Treatment Adherence Management: A Case from Sierra Leone -- Abstract -- 1 Introduction -- 2 Background Literature -- 2.1 ART Adherence Monitoring -- 2.2 ICT in ART Adherence Management -- 2.3 HIS Integration Strategies -- 2.4 Software Platforms and HIS Integration -- 3 Research Approach -- 3.1 Problem Diagnosis and Solution Description -- 3.2 Challenges with Managing ART Adherence and Why DHIS2 -- 4 Discussion -- 5 Conclusion -- References -- Patchworks of Logistics Management Information Systems: Challenges or Solutions for Developing Countries? -- Abstract -- 1 Introduction -- 2 Relevant Literature on LMIS -- 3 Methods -- 4 Cases - Tanzania and Uganda --5 Discussion -- 6 Conclusion -- References. Health Information Systems in Indonesia: Understanding and Addressing Complexity -- Abstract -- 1 Introduction -- 2 Relevant Theoretical Concepts -- 2.1 Fragmentation of HIS in LMICs -- 2.2 CAS, Complexity and Social Systems -- 3 Research Methods -- 3.1 Chronology of the Action Research Events -- 4 Case Study: DHIS2 Dashboard as an "Attractor for Change" -- 5 Discussion -- 5.1 The Context-Sensitive vs. Context-Free Dichotomy -- 6 Conclusion --References -- Open Source Software Ecosystems in Health Sector: A Case Study from Sri Lanka -- Abstract -- 1 Introduction -- 2 Theoretical Background -- 2.1 Software Ecosystems -- 2.2 Open Source -- 3 Research Approach and Methodology -- 3.1 Data Collection -- 3.2 Data Analysis -- 4 Research Findings -- 4.1 Multisector Stakeholder Network -- 4.2 Implementation of the IS -- 5 Analysis and Discussion -- 5.1 Emergence of the SE and Its Composition -- 6 Conclusion -- References -- A Framework to Assess and Address Human Capacities Needed to Leverage Open Source Software Platforms in Developing Countries -- Abstract -- 1 Introduction -- 2 Software Platforms and Ecosystems -- 3 Software Platforms and Human Resource Capacity Requirements -- 4 Methodology -- 5 DHIS2 Software Platform in Malawi -- 5.1 Human Resource Capacity Requirements in the Deployment Phase of the DHIS2 Platform in Malawi -- 5.2 Human Resource Capacity Requirements in the Operation Phase of the DHIS2 in Malawi -- 6 Discussion -- 7 Conclusion -- References -- The Role of Global Standardization Communities in Shaping National Health Information Architectures --Abstract -- 1 Introduction -- 2 ICT Ecosystems -- 2.1 The Process of Change in the ICT Ecosystem -- 2.2 The Context of the Symbiotic Relationships -- 2.3 A National ICT Perspective -- 3 Method -- 4 Empirical Case: OpenHIE -- 4.1 The History of OpenHIE -- 4.2 The Work of OpenHIE -- 5 Discussion. 6 Conclusions and Future Work -- References -- From Abstraction to Implementation: Can Computational Thinking Improve Complex Real-World Problem Solving? A Computational Thinking-Based Approach to the SDGs -- Abstract -- 1 Introduction -- 2 Methodology -- 3 What Does Computational Thinking Entail? -- 4 Real-World Problem: The SDGs -- 5 A Local-to-Global Problem-Solving Approach -- 5.1 Abstraction -- 5.1.1 Elucidation -- 5.1.2 Context Identification --5.1.3 Circumstantial Description -- 5.2 Decomposition -- 5.2.1 Root Cause Breakdown -- 5.2.2 Linkage Breakdown -- 5.3 Solution

Development -- 5.3.1 Fact (Data) Collection -- 5.3.2 Analysis -- 5.3.3 Solution Formation -- 5.4 Validation -- 5.4.1 Implementation -- 5.4.2 Monitoring Progress -- 5.4.3 Error Correction -- 6 Conclusion --References -- Women Empowerment and Gender Justice -- Telecentres Use in Rural Communities and Women Empowerment: Case of Western Cape -- Abstract -- 1 Introduction -- 2 Literature Review -- 2.1 Telecentres: An Overview -- 2.2 ICT for Development -- 2.3 Rural Communities in South Africa -- 2.4 Telecentre Implementation for Gender Empowerment -- 2.5 Impact of Telecentres on Women -- 3 Conceptual Framework: Empowerment -- 4 Methodology -- 4.1 Case Description -- 4.2 Locations -- 4.3 Population and Sample -- 4.4 Data Collection -- 4.5 Data Analysis -- 5 Result -- 5.1 Uses -- 6 Discussion and Conclusion -- 6.1 Benefits Women Derive from the Telecentre -- 7 Recommendation -- References -- Young Women in South African Call Centres: A Case of Women's Empowerment or a Repackaging of the Conventional Global Factory? -- Abstract -- 1 Introduction -- 2 The Study -- 3 Findings and Discussion -- 3.1 Call Centres as Spaces of Women's Economic Empowerment -- 3.2 Pessimism in Use of ICT4D in Call Centres for Young Women Agents -- 4 Discussion -- 5 Conclusion -- Acknowledgement -- References. Social Mechanisms of ICT-Enabled Development -- Living in the Limits: Migration and Information Practices of Undocumented Latino Migrants -- Abstract -- 1 Introduction -- 2 Migration, Communication and Information: Literature Review and Conceptual Stances -- 3 Research Methods: Two Convergent Studies that Harness the Power of Stories --4 Findings: Migration Stories, the Life "in-between" -- 4.1 Trustworthy Spaces and Sources of Information -- 4.2 Transience and Vulnerability -- 4.3 Images and Models of Progress -- 4.4 Deepening 'inbetweenness' -- 4.5 Role of Economic, Cultural and Information Capitals -- 5 Discussion and Conclusions -- References -- Critical Realism and ICT4D Research -- Abstract -- 1 Introduction -- 2 The Features of Critical Realism -- 2.1 The Ontology of Critical Realism --2.2 The Epistemology of Critical Realism -- 2.3 The Methodology of Critical Realism -- 2.4 The Axiology of Critical Realism -- 3 Critical Realism and ICT4D Research -- 3.1 Generic Value of Research Paradigms in ICT4D Research -- 3.2 Ontological Value of Critical Realism in ICT4D Research -- 3.3 Epistemological Value of Critical Realism in ICT4D Research -- 3.4 Methodological Value of Critical Realism in ICT4D Research -- 3.5 Axiological Value of Critical Realism in ICT4D Research -- 3.6 Challenges of Using Critical Realism in ICT4D Research -- 4 Conclusions -- References -- A Spatial Perspective of Innovation and Development: Innovation Hubs in Zambia and the UK --Abstract -- 1 Introduction -- 2 Space and Development -- 3 Methodology -- 4 London Innovation Hub -- 5 Lusaka Innovation Hub -- 6 Analysis -- 6.1 Embeddedness of Hubs in Institutional Contexts -- 6.2 Coexisting Narratives of Hubs -- 7 Conclusion -- References --Methodological Approach for Identifying Mechanisms in ICT4D: A Critical Realism Perspective -- Abstract -- 1 Introduction. 2 Critical Realism and Methodology -- 2.1 Critical Realism -- 2.2 A Proposed Methodology -- 3 An Exemplary Case -- 4 Illustration of the Proposed Methodology -- 4.1 Step 1: Description of Events -- 4.2 Step 2: Identification of Entities -- 4.3 Step 3: Theoretical Re-description (Abduction) -- 4.4 Step 4: Retroduction: Identification of Candidate Mechanisms -- 4.5 Step 5/6: Selection of Mechanism and Ranking of the Selected Mechanisms -- 5 Conclusion -- References --Participatory Technologies: Affordances for Development -- Abstract -- 1 Introduction -- 1.1 Matter Matters -- 1.2 Participatory Development -- 1.3 Affordances -- 2 Existing Literature -- 2.1

	Development 2.2 Participation 2.3 Participatory Technologies 2.4 Affordances 3 Methodology 4 Findings and Discussion 4.1 Functional Affordances vs. Practice Affordances 5 Conclusion References Amplifying Positive Deviance with ICT Abstract 1 Introduction 2 Key Concepts 2.1 Community Development 2.2 Positive Deviance 2.3 ICT Amplification 3 Case Studies 3.1 Case Study: Zenzeleni, A Rural Community-Owned and Run ISP 3.2 Case Study: SignSupport, Assistive Technology for Deaf People 4 Methodology 4.1 Zenzeleni Methodology 4.2 SignSupport Methodology 5 Discussion 6 Conclusion and Moving Forward Acknowledgements References The Data Revolution and Sustainable Development Goals Open Data Reuse, Recycling and Sharing as Potential Solution to Data and Information Resource Inadequacies Abstract 1 Introduction 2 Data and Information Resource Inadequacy Issues 3 Reduce, Reuse, Recycle: The Potential of Open Data as Solution to Data and Information Inadequacies 3.1 Typhoon Haiyan Quick Facts and Figures 3.2 Data Deluge: Mining Haiyan's Voluminous Open Data 3.3 Haiyan's Open Data Reuse and Recycling 4 Conclusion. References.
Sommario/riassunto	This book constitutes the refereed proceedings of the 14th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries, ICT4D 2017, held in Yogyakarta, Indonesia, in May 2017. The 60 revised full papers and 8 short papers presented together with 3 keynotes were carefully reviewed and selected from 118 submissions. The papers are organized in the following topical sections: large scale and complex information systems for development; women empowerment and gender justice; social mechanisms of ICT-enabled development; the data revolution and sustainable development goals; critical perspectives on ICT and open innovation for development; the contribution of practice theories to ICT for development; agile development; indigenous local community grounded ICT developments; global sourcing and development; sustainability in ICT4D; and information systems development and implementation in Southeast Asia. Also included are a graduate student track, current issues and notes. The chapter 'An Analysis of Accountability Concepts for Open Development' is open access under a CC BY 4.0 license via link.springer.com.