



Programme and Abstract Book

The IFIP WG 9.4 2017 Conference

The 14th International Conference on Social Implications of
Computers in Developing Countries

Royal Ambarukmo Yogyakarta
May 22-24, 2017

2017.ifipwg94.net

Jointly hosted by:

Universitas Islam Indonesia & Sanata Dharma University
Yogyakarta, Indonesia

Day 1: May 22, 2017

<i>Time</i>	<i>Program</i>	<i>Venue</i>
08:00-09:00	Registration	Foyer
09:00-09:30	Opening ceremony	Ballroom
09:30-10:45	Keynote speech 1: Robert Davison	Ballroom
10:45-11:00	Break	Restaurant
11:00-12:00	Parallel session 1	Ballroom + Breakout rooms
12:00-13:00	Lunch	Restaurant
13:00-14:30	Panel 1: Data Justice: Addressing Equality, Sustainability and Transformation through Data	Ballroom
14:30-14:45	Break	Restaurant
14:45-16:15	Parallel session 2	Ballroom + Breakout rooms
16:15-18:00	Reception	Poolside

Day 2: May 23, 2017

<i>Time</i>	<i>Program</i>	<i>Venue</i>
08:00-09:15	Keynote speech 2: Chrisanthi Avgerou	Ballroom
09:15-09:30	Break	Restaurant
09:30-11:30	Panel 2: Strengthening National Health Information Systems in Indonesia Parallel session 3	Ballroom + Breakout rooms
11:30-12:15	Poster slam presentation	Ballroom
12:15-13:15	Lunch + poster session	Restaurant
13:15-14:45	Panel 3: Academic Writing and Publishing	Ballroom
14:45-15:00	Break	Restaurant
15:00-16:30	Parallel session 5	Ballroom + Breakout rooms
16:30-17:00	Trip to the restaurant	
17:00-19:15	Gala dinner	Abhayagiri Restaurant
19:15-19:30	Trip to the temple	
19:30-21:30	Ramayana ballet	Prambanan Temple
21:30-22:00	Trip to the hotel	

Day 3: May 24, 2017

<i>Time</i>	<i>Program</i>	<i>Venue</i>
08:00-09:15	Keynote speech 3: Kentaro Toyama	Ballroom
09:15-09:30	Break	Restaurant
09:30-11:00	Panel 4: Co-producing a Set of Minimum Ethical Standards for ICT4D/ICTD	Ballroom
11:00-12:30	Parallel session 5	Ballroom + Breakout rooms
12:30-13:30	Lunch	Restaurant
13:30-15:00	Panel 5: Debating the Impact of Impact sourcing	Ballroom
15:00-15:30	Closing ceremony	Ballroom
15:30-16:00	Break	Restaurant
16:00-17:30	Business meeting	Ballroom

Detailed Programme

Day 1: May 22, 2017

<i>Time</i>	<i>Program</i>
08:00-09:00	Registration
09:00-09:30	Opening ceremony
09:30-10:45	Keynote speech 1: Facilitating Social Harmony through ICTs <i>Robert Davison</i>
10:45-11:00	Break
11:00-12:00	Parallel session 1 Ballroom: <u>Track 07. Agile Development</u> Chair: <i>Julian M. Bass</i> Building Capacity in Kenya's ICT Market Using Cross-Border Scrum Teams <i>Andy Haxby and Rohit Lehki</i> Agile Methods in Ethiopia: An Empirical Study <i>Zelalem Regassa, Julian M. Bass and Dida Midekso</i> Breakout room 1: <u>Track 01. Large Scale and Complex Information Systems for Development</u> Chairs: <i>Petter Nielsen, Johan Sæbø</i> Leveraging Software Platform Capabilities to Support HIV (ART) Treatment Adherence Management: A Case from Sierra Leone <i>Eric Adu-Gyamfi and Petter Nielsen</i> Patchworks of Logistics Management Information Systems: Challenges or Solutions for Developing Countries? <i>Bjørn-Ingvar Bergum, Petter Nielsen and Johan Ivar Sæbø</i>

Breakout room 2:

Track 02. Women Empowerment and Gender Justice

Chairs: *Ineke Buskens, Tony Roberts, Arlene Bailey*

Telecenters Use in Rural Communities and Women Empowerment: Case of Western Cape

Abiodun Alao, Edda Tandi Lwoga and Wallace Chigona

Young Women in South African Call Centres: A Case of Women's Empowerment or a Repackaging of the Conventional Global Factory?

Sisa Ngabaza

Breakout room 3:

Track 06. The Contribution of Practice Theories to ICT for Development

Chairs: *Stan Karanasios, Pär-Ola Zander, Natalie Pang*

System Failure for Good Reasons? Understanding Aid Information Management Systems (AIMS) with Indonesia as State Actor in the Changing Field of Aid

Kyung Ryul Park and Boyi Li

Practices of Disease Surveillance and Response in Burkina Faso

Stine Loft Rasmussen

12:00-13:00 Lunch

13:00-14:30 Panel 1:

Data Justice: Addressing Equality, Sustainability and Transformation through Data

Richard Heeks, Dias Rahwidiati, Sumandro Chattapadhyay

14:30-14:45 Break

14:45-16:15 Parallel session 2

Ballroom:

Track 04. The Data Revolution and Sustainable Development Goals

Chairs: *Richard Heeks, Tanti Liesman, Jaco Renken*

Open Data Reuse, Recycling and Sharing as Potential Solution to Data and Information Resource Inadequacies

Kyla Matias, Tetsuo Kidokoro, Scira Menoni, Ouejdane Mejri and Negar Aminoltaheri

A Critical and Systemic Consideration of Data for Sustainable Development in Africa

Nyalleng Moorosi, Mamello Thinyane and Vukosi Marivate

Data Governance: A Challenge for Merged and Collaborating Institutions in Developing Countries

Ephias Ruhode and Charmaine Thandi Mlangeni

Breakout room 1:

Track 05. Critical Perspectives on ICT and Open Innovation for Development

Chairs: *Endrit Kromidha, Silvia Masiero, Caitlin Bentley*

Collaborative Social Innovation in the Hybrid Domain: Organization and Rationality

Yuko Aoyama and Balaji Parthasarathy

Digital Innovation: A Research Agenda for Information Systems Research in Developing Countries

Petter Nielsen

Social Mapping for Communal Sensemaking: the Case of Development Informatics Researchers in South Africa

Judy van Biljon and Mario Marais

Breakout room 2:

Track 03. Social Mechanisms of ICT-enabled Development

Chairs: *Antonio Díaz Andrade, Angsana A. Techatassanasoontorn, Harminder Singh*

Living in the Limits: Migration and Information Practices

Luis Baron and Ricardo Gomez

Participatory Technologies: Affordances for Development

Tony Roberts

A Spatial Perspective of Innovation and Development: an Analysis of Innovation Hubs from Zambia and the UK

Andrea Jimenez and Yingqin Zheng

Breakout room 3:

Track 12. IPID and Graduate Student Track

Chairs: *Julian M. Bass, Solange Mukamurenzi*

Bringing Visibility to the Community Health Work Practice: A Case of Malawi

Esther Namatovu and Chipso Kanjo

True Value of Telecentre Contribution to Barrio Community Development

Ghazala Tabassum, Narayanan Kulathuramaiyer, Roger Harris and Alvin W. Yeo

**Linkage between ICT and Agriculture
Knowledge Management process: A case study
from Non-Government Organizations (NGOs),
India**

*Ram Naresh Kumar Vangala, Asim Banerjee and
Hiremath B N*

16:15-18:00 Reception

Day 2: May 23, 2017

<i>Time</i>	<i>Program</i>
08:00-09:15	Keynote speech 2: Theoretical Framing of ICT4D Research <i>Chrisanthi Avgerou</i>
09:15-09:30	Break
09:30-11:30	Panel 2 + Parallel session 3 Ballroom: Panel 2: Strengthening National Health Information Systems in Indonesia <i>National HIS Implementation Team and the University of Oslo</i>
	Breakout room 1: <u>Track 11. IS Development and Implementation in Southeast Asia</u> Chairs: <i>Syed Nasirin, Rose Alinda Alias</i>
	Experience with the Mobile4D Disaster Reporting and Alerting System in Lao PDR <i>Ahmed Loai Ali, Jasper van de Ven, Thatheva Saphangthong, Christian Freksa, Thomas Barkowsky, Sithong Thongmanivong, Hounghphet Chanthavong and Peter Haddawy</i>

**Tensions in Information System Artefacts:
Explaining Land Information Systems' Sub-
Optimal Impact in Indonesia**

Fathul Wahid, Øystein Sæbø and Bjørn Furuholt

**Applying ICT to Health Information Systems
(HIS) in Low Resource settings: Implementing
DHIS2 as an Integrated Health Information
Platform in Lao PDR**

*Anh Chu, Phommavong Chansaly, John Lewis, Jørn
Braa and Wilfred*

**Design and Build OLAP Business Intelligence for
Village Sustainable Development Planning**

Irya Wisnubhadra and Stephanie Pamela

Breakout room 2:

Track 10. Sustainability in ICT4D

Chairs: Mario Marais, Isabel Meyer, Hugo Lotriet

**The Impact of Stakeholder Management on
Sense of Ownership and Sustainability of
Telecentres: Case of Malawi**

Christopher Banda and Wallace Chigona

**ICTs for Agroecology: Shifting agricultural
ICT4D from "I" to "C"**

Linus Kendall and Andy Dearden

**An Exploration of the Integration Challenges
Inherent in the Adoption of ICT in an Education
System**

*Isabel Meyer, Mario Marais, Merryl Ford and Sifiso
Dlamini*

**Learning to be Sustainable in ICT for
Development: A Citizen Engagement Initiative
in South Africa**

Caroline Pade-Khene and John Lannon

Breakout room 3:

Track 12. IPID and Graduate Student Track

Chairs: Julian M. Bass, Solange Mukamurenzi

**Subalternity in Information Systems in
Developing Countries: A Critical Analysis of
Ghana's Tradenet**

Atta Addo

**Challenges for Health Indicators in Developing
Countries: Misconceptions and Lack of
Population Data**

Flora Nah Asah, Petter Nielsen and Johan Ivar Sæbø

**Riding Waves of Change: A Review of Personas
Research Landscape Based on the Three Waves
of HCI**

*Chu Hiang Goh, Narayanan Kulathuramaiyer and
Tariq Zaman*

**A Model for Developing Usable Integrated Case
Management Information Systems**

*Edgar Kuhimbisa, Rehema Baguma and Agnes
Nakakawa*

Breakout room 4:

Track 14. General

*Chairs: Ramayah, Sherah Kurnia, Noorminshah A.
Iahad*

**Are Online Social Networks, Leading to a 'Better
World' in the Omani Public Sector? A
Qualitative Study**

Jyoti Choudrie, Efpraxia Zamani and Ali Al-Bulushi

**From Longhand Writing to Word Processing: A
Phenomenological Study of the Technophobe
Turned Novelist**

Antonio Díaz Andrade

A Preliminary Testing of the Strategic IT Decision Making Model

Sherah Kurnia, Dora Constantinidis, Alison Parkes, Toomas Tamm and Peter Seddon

Four Strategies of Social Media Use among Indonesian Politicians

Alfatika Aunuriella Dini and Fathul Wahid

11:30-12:15 Poster slam presentation

Track 15: Posters

Chairs: Solange Mukamurenzi, Tariq Zaman, Devendra Thapa

An Analysis of Accountability Concepts for Open Development

Caitlin Bentley

Information Ecology as a Framework for South-South Cooperation: Case Studies of Rwanda and Bangladesh ICT-based Health Applications

Suzana Brown and Faheem Hussain

Actor-Networks and “Practices” of Development: Impact of a Weather Information System in West Bengal

Bidisha Chaudhuri, Purnabha Dasgupta, Onkar Hoysala, Linus Kendall and Janaki Srinivasan

Understanding the Dilemma of the Municipal Solid Waste Management System in Alexandria, Egypt: Could ICT Improve the System?

Rasha Fahim Elgazzar, Rania El-Gazzar and Mohamed Abdel Fattah El-Gohary

A Reflection on IT Implementation Challenges in State Institution: a Case Study on Development Projects at Indonesian Judiciary

Haemiwan Z. Fathony and Bobby A.A. Nazief

Analysis of Impact Sourcing by Infusing Social Innovation in Outsourcing for Nepal
Sojen Pradhan

Exploring Personal Computing Devices Ownership Among University Students in Indonesia
Ahmad R. Pratama

A Conceptual Framework of ICT4D Champion Origins
Jaco Renken and Richard Heeks

12:15-13:15 Lunch + poster session

13:15-14:45 Panel 3:
Academic Writing and Publishing
Julian Bass and Robert Davison

14:45-15:00 Break

15:00-16:30 Parallel session 4

Ballroom:

Track 14. General

Chairs: *Ramayah, Sherah Kurnia, Noorminshah A. Iahad*

Cancer Patients on Facebook: A Theoretical Framework

Marva Mirabolghasemi and Noorminshah A. Iahad

Factors Affecting the Growth of the ICT Industry: the Case of Bhutan

Deepika Rai and Sherah Kurnia

The Impact of Facebook on the Quality of Life of Senior Citizens in Cape Town

Denaneer Rylands and Jean-Paul Van Belle

Breakout room 1:

Track 09. Global Sourcing and Development

Chairs: *Shirin Madon, N. Ravishankar, Brian Nicholson*

Understanding the Development Implications of Online Outsourcing

Fareesa Malik, Brian Nicholson and Richard Heeks

Track 01. Large Scale and Complex Information Systems for Development

Chairs: *Petter Nielsen, Johan Sæbø*

Health Information Systems in Indonesia: Understanding and Addressing Complexity

Jorn Braa, Sundeep Sahay, John Lewis and Wilfred Senyoni

Open Source Software Ecosystems in Health Sector: A Case Study from Sri Lanka

Roshan Hewapathirana, Pamod Amarakoon and Jørn Braa

Breakout room 2:

Track 08. Indigenous and Local Community Grounded ICT Developments

Chairs: *Tariq Zaman, Heike Winschiers-Theophilus, Roger Harris, Alvin Yeo Wee*

Deriving Engagement Protocols within Community-Based Co-Design Projects in Namibia

Gereon Koch Kapuire, Heike Winschiers-Theophilus and Margot Brereton

Continuing Medical Education on a Stick: Nepal as a Test Bed

Yan Li, Manoj Thomas, Sarbartha Rana and Debra Stoner

Supporting Sustainability through Collaborative Awareness Raising - A Case of Sri Lankan Telecentres

Sirkku Männikkö Barbutiu, Thomas Westin, Harsha Perera, Upul and Ranil Peiris

Breakout room 3:

Track 03. Social Mechanisms of ICT-enabled Development

Chairs: Antonio Díaz Andrade, Angsana A. Techatassanasoontorn, Harminder Singh

Critical Realism and ICT4D Research

Richard Heeks and PJ Wall

Methodological Approach for Identifying Mechanisms in ICT4D: A Critical Realism Perspective

Hans Olav Omland and Devinder Thapa

Amplifying Positive Deviance with ICT: Enabling Community Development and Interdependence

William Tucker

16:30-17:00	Trip to the restaurant
17:00-19:15	Gala dinner
19:15-19:30	Trip to the temple
19:30-21:30	Ramayana ballet
21:30-22:00	Trip to the hotel

Day 3: May 24, 2017

<i>Time</i>	<i>Program</i>
08:00-09:15	Keynote speech 3: Design, Needs, and Aspirations in International Development <i>Kentaro Toyama</i>
09.15-09.30	Break
09.30-11.00	Panel 4: Co-producing a Set of Minimum Ethical Standards for ICT4D/ICTD <i>Andrew M. Dearden, Linus Kendall, and Bill Tucker</i>
11:00-12:30	Parallel session 5 Ballroom: <u>Track 10. Sustainability in ICT4D</u> <i>Chairs: Mario Marais, Isabel Meyer, Hugo Lotriet</i> Self-Reinforcing Linkages between Value and Local Ownership: Rethinking Sustainability of ICT4D Project <i>Sundeep Sahay and Arunima Mukherjee</i> ICT4D Sustainability as Generativity <i>Terje Aksel Sanner</i> Sustainability of the aAQUA e-Agriservice: A Case Study of Maharashtra, India <i>Sagar Wadkar, Khajan Singh, Asif Mohammad, K S Kadian and Ravinder Malhotra</i>
	Breakout room 1: <u>Track 06. The Contribution of Practice Theories to ICT for Development</u> <i>Chairs: Stan Karanasios, Pär-Ola Zander, Natalie Pang</i>

Affordance and Habitus: Understanding Land Records e-Services in Bangladesh
Laurence Brooks and Muhammad Shahanoor Alam

Socializing Accountability and Health Information Systems: An Action Research Program in rural Karnataka
Shirin Madon and Srinivas Krishna

Design Science Research and Activity Theory in ICT4D: Developing a Socially Relevant ICT Platform for Elderly Women in Remote Rural South Africa
Ronel Smith and Marita Turpin

Breakout room 2:

Track 14. General

Chairs: *Ramayah, Sherah Kurnia, Noorminshah A. Iahad*

Mobile Phones as a Citizen-controlled Anti-corruption Tool in East Africa - a Literature Review
Cecilia Strand and Mathias Hatakka

From Routine to Revolt: Improving Routine Health Data Quality and Relevance by Making them Public
Thanh Nguyen and Petter Nielsen

Assessing the E-Government Maturity for Public Sector Innovation in Developing Countries: Case of National Informatization Assessment Tool (NIAT)
Hanah Zoo, Heejin Lee and Jeongwon Yoon

Breakout room 3:

Track 01. Large Scale and Complex Information Systems for Development

Chairs: *Petter Nielsen, Johan Sæbø*

A Framework to Assess and Address Human Capacities Needed to Leverage Open Source Software Platforms in Developing Countries

Brown Msiska and Petter Nielsen

The Role of Global Standardization Communities in Shaping National Health Information Architectures

Simon Pettersen Nguyen, Petter Nielsen and Johan Ivar Sæbø

From Abstraction to Implementation: Can Computational Thinking Improve Complex Real-World Problem Solving? A Computational Thinking-Based Approach to the SDGs

Maryam Rabiee and A Min Tjoa

12:30-13:30 Lunch

13:30-15:00 Panel 5:

Debating the Impact of Impact Sourcing

Brian Nicholson, Richard Heeks, M Ravishankar, Shirin Madon, and Fareesa Malik

15:00-15:30 Closing ceremony

15:30-16:00 Break

16:00-17:30 Business meeting