



Conference Programme

Date: Monday, 03/Dec/2018

9:00am - 1:00pm	Workshops Monday Morning Ruacana Session Chair: Munyaradzi Maravyanyika
9:00am - 5:00pm	Workshops Monday Full day Ruacana Session Chair: Munyaradzi Maravyanyika
9:00am - 5:00pm	Consortia: Postgraduate seminar Etosha Session Chair: Hafeni Lyatenda Mthoko Session Chair: David Lamas
2:00pm - 5:00pm	Workshops Monday Afternoon Ruacana Session Chair: Munyaradzi Maravyanyika Best UX Practices for Consumer, Business, and Healthcare Applications

Date: Tuesday, 04/Dec/2018

9:00am - 3:00pm	Workshops Tuesday Morning Ruacana Session Chair: Munyaradzi Maravyanyika
9:00am - 5:00pm	Workshops Tuesday Full Day Ruacana Session Chair: Munyaradzi Maravyanyika
2:00pm - 5:00pm	Workshops Tuesday Afternoon Ruacana Session Chair: Munyaradzi Maravyanyika

Date: Wednesday, 05/Dec/2018

8:30am - 10:30am	Opening: Opening Session Kuisseb Session Chair: Anicia Nicola Peters Welcome Address Dr Tjama Tjivikua, Vice Chancellor NUST Opening Address Honourable Stanley Mutumba Simataa, Minister ICT Opening Keynote Dr Rita Orji, Ass. Prof, Dalhousie University
11:00am - 12:30pm	Full Papers A: Co-designing technologies Kuisseb Session Chair: Jessica Rebecca Cauchard
12:30pm - 1:00pm	Design Challenge Intro: Designing for well-being considering the unspoken Kuisseb Session Chair: Helena Nahum
2:15pm - 4:00pm	Short Papers A: Technologies The Brandberg Session Chair: Fungai Bhunu Shava
2:15pm - 4:00pm	Short Papers B: Contexts Kuisseb Session Chair: Izak van Zyl
4:30pm - 5:30pm	Plenary: Citizen and community engagements Kuisseb Session Chair: Maletsabisa Molapo
6:30pm - 9:00pm	Welcome Reception: Interactive Installations Omatako Session Chair: Mohammed Shehu Industry talks and round tables, UE Group Opening of Exhibition, Mark Mushiva

Date: Thursday, 06/Dec/2018

9:00am - 10:00am	Panel: The Social Technology Ecosystems in Africa: What does AfriCHI have to Say? Kuisseb Session Chair: Shaimaa Lazem
10:30am - 12:00pm	Full Papers B: Technology adoption Kuisseb Session Chair: Rita Orji
12:00pm - 1:00pm	Design Challenge: Working groups Kuisseb Session Chair: Helena Nahum
2:00pm - 3:30pm	Full Papers C: Behavioural studies and technologies Kuisseb Session Chair: Carolina A. Islas Sedano
4:00pm - 5:00pm	Posters: Exhibition Pre-Assembly
7:00pm - 10:00pm	Dinner: Conference Dinner

Date: Friday, 07/Dec/2018

9:00am - 10:30am	Full Papers D: Cross-cultural approaches
Kuiseb	Session Chair: Hanlie Smuts
11:00am - 1:00pm	Closing Session: Closing Keynote & Awards
Kuiseb	Session Chair: Nobert Jere Closing Keynote: Dr Admire Mare Design Challenge Awards
1:30pm - 6:30pm	Demos Public: Interactive Installations
Omatako	Session Chair: Mark Mushiva

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Presentations

Workshops Monday

Time: Monday, 03/Dec/2018: 9:00am - 1:00pm · *Location:* Ruacana
Session Chair: Munyaradzi Maravanyika

Designing Healthcare Technologies Solutions for African context

Suama Hamunyela¹, Nobert Jere²

¹Namibia University of Science and Technology; ²Walter Sisulu University

Time: Monday, 03/Dec/2018: 9:00am - 5:00pm · *Location:* Ruacana
Session Chair: Munyaradzi Maravanyika

Designing playful situations for strangers in urban areas

Mark Mushiba¹, Adam van Heerdan², Holger Heissmeyer³

¹University of Trento, Italy; ²Eindhoven University of Technology, Netherlands; ³Intergestalt, Germany

Visualization of African Knowledge to embody the Spirit of African Storytelling: Principles, practices and evaluation

Judy Van Biljon¹, Karen Renaud^{1,2}, Bester Chimbo¹

¹University of South Africa (UNISA), South Africa; ²Abertay University, South Africa

Workshops Tuesday

Time: Tuesday, 04/Dec/2018: 9:00am - 3:00pm · *Location:* Ruacana
Session Chair: Munyaradzi Maravanyika

Perspectives on Safeguarding Indigenous Knowledge and Intangible Cultural Heritage

Peter Gallert¹, Colin Stanley¹, Kasper Rodil²

¹Namibia University of Science and Technology, Namibia; ²Aalborg University, Denmark

Time: Tuesday, 04/Dec/2018: 9:00am - 5:00pm · *Location:* Ruacana
Session Chair: Munyaradzi Maravanyika

Multi-Cultural Human-Robot Interaction Workshop

Anna Aleksandra Wojciechowska, Jessica Rebecca Cauchard

Interdisciplinary Center Herzliya, Israel

Designing Technologies for Africa: Does Culture matter?

Aphiwe Celia Sikhuphela, Maka Sonwabile, Nandipha Gawuza, Nobert Jere

Walter Sisulu, South Africa

Consortia: Postgraduate seminar

Time: Monday, 03/Dec/2018: 9:00am - 5:00pm · *Location:* Etosha

Session Chair: Hafeni Lyatenda Mthoko

Session Chair: David Lamas

Co-Designing with Young Adults with Intellectual Disability to Develop Life Skills

Andrew A. Baylor

Queensland University of Technology, Australia

Technological Speculations for African Oral storytelling:

Melisa Achoko Allela

Technical University of Kenya, Kenya

Intelligent techniques to support online mental health communities and resource recommendations for 4 levels of stepped care.

Claudette Pretorius

University College Dublin, Ireland

Mobile Persuasion: Promoting Clean and Sustainable Environment

Makuochi Samuel Nkwo¹, **Rita Orji**², **John Ugah**³

¹Department of Computer Science Ebonyi State University Abakaliki, Nigeria; ²Faculty of Computer Science Dalhousie University NS, Canada; ³Department of Computer Science Ebonyi State University Abakaliki, Nigeria

The Interplay between Emotion And Trust In Technology

Ighoyota Ben Ajenaghughrure, **Sonia Sousa**, **David Lamas**

TALLINN UNIVERSITY, Estonia

Formulating an E-learning Theory: A Grounded Theory Approach

Rachael Njeri Kibuku¹, **Dr. Dan Orwa Ocheing**²

¹KCA University, Kenya; ²University of Nairobi, Kenya

Human Computer Interaction for Development (HCI4D): Implementing Reformation/Design Opportunities for Support and Care Coordination in Nigerian Prisons

ChukwuNonso Nwokoye

Nnamdi Azikiwe Univeristy, Nigeria, Nigeria

A Model for Adoption of E-government Systems in Public Universities in Uganda

Lillian Ndagire

Makerere University, Uganda

Evaluations of Human Emotional State & Affective Computing to Support Job-Seekers

Tochukwu Arinze Ikwunne

Federal University Ndufu-Alike Ikwo, Nigeria

Technology Appropriation through Co-design of Conservation Management Tools by Indigenous Communities

Paulus Chris Muashekele

Namibia University of Science and Technology, Namibia

Supporting Entrepreneurship with Digital Services in Emerging Economies

Pietari Keskinen

Aalto University, Finland

Full Papers A: Co-designing technologies

Time: Wednesday, 05/Dec/2018: 11:00am - 12:30pm · *Location:* Kuiseb
Session Chair: Jessica Rebecca Cauchard

11:00am - 11:30am

Co-designing with Mothers and Neonatal Unit Staff: Use of Technology to Support Mothers of Preterm Infants

Christine Wanjiru Mburu, Yaseen Joolay, Melissa Densmore
University of Cape Town, South Africa

11:30am - 12:00pm

The Talking Book: Participatory Design of an Icon-Based User Interface for Rural People with Low Literacy

Andrew A. Baylor^{1,3}, Cliff Schmidt², Fidelis A. Da-uri³, Noel Wilson⁴, Christopher Drovandi¹, Margot Brereton¹
¹Queensland University of Technology, Australia; ²Literacy Bridge, Seattle USA; ³Literacy Bridge Ghana, Wa, Upper West Region, Ghana; ⁴Catapult Design, Brooklyn, New York

12:00pm - 12:30pm

Co-creating personal augmented reality accessories to enhance social well-being of urban San youth

Maria Kauhondamwa¹, Heike Winschiers-Theophilus¹, Simson Kapembe³, Hiskia Costa³, Jan Guxab², Isay Kamati⁵, Helena Afrikaner⁴
¹Namibia University of Science and Technology, Namibia; ²Ana-Jeh San Trust; ³Monitronics Success College; ⁴University of Namibia; ⁵National Health Training Centre

Full Papers B: Technology adoption

Time: Thursday, 06/Dec/2018: 10:30am - 12:00pm · *Location:* Kuiseb
Session Chair: Rita Orji

10:30am - 11:00am

Mobile Weather Services for Maasai Farmers: Socio-cultural Factors Influencing the Adoption of Technology

Niina Arvila¹, **Anabel Fischer**², Pietari Keskinen¹, Marko Nieminen¹
¹Aalto University, School of Science, Finland; ²Aalto University, School of Business, Finland

11:00am - 11:30am

Re-Conceptualizing Technology Adoption in Informal Settlements based on a Namibian application

Asnath Paula Kambunga², Heike Winschiers-Theophilus², Naska Goagoses¹
¹C.v.O. University of Oldenburg, Germany; ²Namibia University of Technology and Science

11:30am - 12:00pm

Participatory Design of DIY Digital Assistive Technology in Western Kenya

Foad Hamidi¹, Patrick Mbullo², Deurence Onyango³, Michaela Hynie⁴, Susan McGrath⁴, Melanie Baljko⁴
¹University of Maryland, Baltimore County, United States of America; ²Northwestern University, Chicago, United States of America; ³Pamoja CBO, Kisumu, Kenya; ⁴York University, Toronto, Canada

Full Papers C: Behavioural studies and technologies

Time: Thursday, 06/Dec/2018: 2:00pm - 3:30pm · *Location:* Kuiseb
Session Chair: Carolina A. Islas Sedano

2:00pm - 2:30pm

Personalizing Health Theories in Persuasive Game Interventions to Gamer Types: An African Perspective

Rita Orji¹, Fidelia Orji², Kiemute Oyibo², Ifeyinwa A. Ajah³
¹Faculty of Computer Science, Dalhousie University, Canada; ²Computer Science Dept., University of Saskatchewan, Canada; ³Computer Science Dept., Ebonyi State University, Nigeria

2:30pm - 3:00pm

ICTs Use and Cyberspace Risks Faced By Adolescence in Namibia

Pardon Blessings Maoneke, Fungai Bhunu Shava, Attlee Gamundani, Mercy Chitauro, Isaac Nhamu

Namibia University of Science and Technology, Namibia

3:00pm - 3:30pm

Persuasive Technology in Africa Context: Deconstructing Persuasive Techniques in an Indigenous African Ecommerce and Online MarketPlace.

Makuochi Nkwo¹, Rita Orji²

¹Department of Computer Science Ebonyi State University Abakaliki, Nigeria; ²Faculty of Computer Science Dalhousie University NS, Canada

Full Papers D: Cross-cultural approaches

Time: Friday, 07/Dec/2018: 9:00am - 10:30am · *Location:* Kuiseb

Session Chair: Hanlie Smuts

9:00am - 9:30am

Culturally Sensitive User Interface Design: A Case Study with German and Vietnamese Users

Florian Lachner, Mai-Anh Nguyen, Andreas Butz

LMU Munich, Germany

9:30am - 10:00am

Cross-cultural Perspectives on eHealth Privacy in Africa

Moses Namara¹, Daricia Wilkinson¹, Byron M. Lowens¹, Bart P Knijnenburg¹, Rita Orji², Sekou L. Remy³

¹Clemson University, United States of America; ²Dalhousie University, Canada; ³IBM Research, Nairobi, Kenya

10:00am - 10:30am

Home is not Egumbo: Language, Identity and Web Design

Hilma Ndapewa Aludhilu¹, Nicola J Bidwell²

¹University of Namibia, Namibia; ²International University Of Management, Namibia

Short Papers A: Technologies

Time: Wednesday, 05/Dec/2018: 2:15pm - 4:00pm · *Location:* The Brandberg
Session Chair: Fungai Bhunu Shava

Formalizing Social Media Marketing Strategies: A Case Study of Namibian SMEs

Mohammed Shehu

Namibia University of Science & Technology, Namibia

Guidelines for Designing e-Statements for e-Banking

Jacques Brosens, Rendani Kruger, Hanlie Smuts

University of Pretoria, South Africa

Exploring the Effect of Literacy on Signs in GUI-Design

Mennatallah Saleh, Christian Sturm

Hamm Lippstadt University of Applied Science, Germany

A Comparative Study of Smartphone-User Security Perception and Preference towards Redesigned Security Notifications

Jema David Ndibwile¹, Edith Talina Luhanga², Doudou Fall³, Youki Kadobayashi⁴

¹Nara Institute of Science and Technology, Japan; ²Nara Institute of Science and Technology, Japan; ³Nara Institute of Science and Technology, Japan; ⁴Nara Institute of Science and Technology, Japan

RASP-IVR: A Low Cost Interactive Voice Response System

Vikram Kamath Cannanure¹, Timothy X Brown²

¹Carnegie Mellon University, United States of America; ²Carnegie Mellon University, Kigali, Rwanda

Short Papers B: Contexts

Time: Wednesday, 05/Dec/2018: 2:15pm - 4:00pm · *Location:* Kuseib
Session Chair: Izak van Zyl

Technology at the Museum: The Missing Voice

Lindah Kotut, Ann Hoang, Jennifer Shenk, Havisha Panda, D. Scott McCrickard

Virginia Tech, United States of America

Influence of Internet Experience on the Judgment of Mobile Web Design: A Case Study of West Africa

Kiemute Oyibo¹, Ifeoma Adaji¹, Rita Orji², Julita Vassileva¹

¹University of Saskatchewan, Canada; ²Dalhousie University, Canada

STD PONG: Changing Risky Sexual Behaviour in Africa through Persuasive Games.

Chinenye Ndulue, Rita Orji

Dalhousie University Halifax, Canada

Personalized Persuasion for Promoting Clean and Sustainable Environment

Makuochi Samuel Nkwo¹, John Ugah³, Rita Orji²

¹Department of Computer Science Ebonyi State University Abakaliki, Nigeria; ²Faculty of Computer Science Dalhousie University NS, Canada; ³Department of Computer Science Ebonyi State University Abakaliki, Nigeria

Welcome Reception: Interactive Installations

Time: Wednesday, 05/Dec/2018: 6:30pm - 9:00pm · *Location:* Omatako
Session Chair: Mohammed Shehu

Using Augmented Reality to enhance Printed Magazine Articles about Namibian Lodges

Elisabeth Thielen¹, Jürgen Sieck¹, Deborah Ajibola², Victoria Shafombabi², Petrus Phius², Niclas Shilongo²
¹HTW Berlin, Germany; ²NUST Windhoek, Namibia

The Tale of the Tokoloshe: Safeguarding Intangible Cultural Heritage Using Virtual Reality

Milo Marsfeldt Skovfoged, Martin Viktor, Miroslav Kalinov Sokolov, Anders Hansen, Helene Høgh Nielsen, Kasper Rodil
Media Technology, Aalborg University, Denmark

Sound Play: An Interactive Sound Installation for Playful Intergenerational Interactions in Public Areas

Mark Mushiva
University of Trento, Italy

An Interactive Classical VR Concert Featuring Multiple Views

Michael Mario Droste¹, Julien Letellier¹, Jürgen Sieck^{1,2}
¹University of Applied Sciences, Germany; ²Namibia University of Science and Technology (NUST)

CyberBullet – Share Your Story: An Interactive Game for Stimulating Awareness on the Harm and Negative Effects of the Internet

Josephina Mikka-Muntuumo, Anicia Peters, Hussin Jazri
Namibia University of Science and Technology, Namibia

A Room for Social Justice: Affective and Interactive Augmented Reality Exploration

Leonard Iyaloo Ashikoto¹, Deborah Ajibola¹, Veera Virmasalo²
¹Namibia University of Science and Technology, Namibia; ²Malmö University

Ila mo (come in): The Use of Collaborative Technologies to Mediate Collective Meaning Making

Ryna Cilliers, Lara Nieuwenhuis
Cape Peninsula University of Technology, South Africa

A mediated intermedia conversation around the perception and self-perceptions of the San

Brit Stichel¹, Helena Afrikaner², Heike Winschiers-Theophilus³, Cameron MacRae⁴
¹Hochschule Flensburg, Germany; ²University of Namibia, Namibia; ³Namibia University of Science and Technology; ⁴Namibia University of Science and Technology

Dérive: An exploration of critical play for urban placemaking

Mark Mushiva¹, Holger Heissmeyer²
¹University of Trento, Italy; ²Intergestalt, Germany

Interactive Recipe Book - Enhance your traditional Recipe Book

Denise Bischof¹, Jacodia Fransman², Jürgen Sieck²
¹HTW Berlin, Germany; ²Namibia University of Science and Technology

Peoples Primary School Interactive Tech Library Exhibition

Helvi Itenge Wheeler¹, Heike Winschiers-Theophilus²
¹Namibia University of Science and Technology, Namibia, Queensland University of Technology; ²Namibia University of Science and Technology, Namibia

The Brandberg Augmented Reality Experience

Martha Mosha¹, Tilman Lenssen-Erz², Goodman Gwasira¹
¹University of Namibia, Namibia; ²University of Cologne

The Hard Struggle: A Co-designed Interactive Career Guidance Online Game

Annastasia Shipepe¹, Anicia Peters²
¹Namibia University of Science and Technology/University of Namibia, Namibia; ²Namibia University of Science and Technology

Triggering interest in outdoor gallery exhibitions through touch, sound and games

Carolina A. Islas Sedano^{1,2}, **Antony Harfield**³, **Christian Schweikert**², **Mikko Vinni**²

¹University of Turku, Finland; ²Ubium Oy, Finland; ³Naresuan University, Phitsanulok, Thailand

Yes/No-Object

Holger Martin Heißmeyer

intergestalt, Germany

Posters: Exhibition

Time: Thursday, 06/Dec/2018: 4:00pm - 5:00pm · Location: Pre-Assembly

Using Smartphones to Take Eye Images for Disease Diagnosis in Developing Countries

Daniel Diethel, Johannes Schöning
University of Bremen, Germany

Personality, Culture and Password Behavior: A Relationship Study

Abdullahi Abubakar Kawu¹, Rita Orji², Aisha Awal³, Usman Gana⁴

¹Ibrahim Badamasi Babangida University, Lapai, Nigeria; ²Dalhousie University, Canada; ³Ibrahim Badamasi Babangida University, Lapai, Nigeria; ⁴Ibrahim Badamasi Babangida University, Lapai, Nigeria

Persuasion in Ecommerce: A Comparative Analysis of Western and Indigenous African Ecommerce.

Makuochi Samuel Nkwo¹, Rita Orji²

¹Paul University Awka Nigeria, Federal College of Education (Technical), Umuze Nigeria; ²Faculty of Computer Science Dalhousie University NS, Canada

Human-based fraudulent attempts on gait based profiles

Yasmeen Abdrabou, Omar Sherif, Rana Mohamed Eisa, Amr Elmougy
German University in Cairo, Egypt

Online Social Networks Risks to Organisations: A Literature Review

Talitakuem Temukondiele Anyangha Ekandjo, Hussin Jazri, Anicia Peters

Namibia University of Science and Technology, Namibia

BAM Framework: Unlocking Highly Personalized Banking Services in Africa

Oladapo Olamide Oyebo, Rita Orji
Dalhousie University, Canada

Development of an efficient, cost-reducing Content Management System for Augmented Reality Applications

Andrey Borisov¹, Jürgen Sieck¹, Leonard Ashikoto², Gabriel Kamenye², Jason Mwenyo², Nawa Likando²

¹HTW Berlin, Germany; ²Namibia University of Science and Technology, Namibia

Solos or Peers: Technology Mediated Learning of Programming

Maria Ntinda, Nicola J Bidwell
University of Namibia, Namibia

Considerations for Co-Designing e-Government Services in Under-Served Rural Communities

Karin Fröhlich¹, Marko Nieminen², Anicia Peters³, Antti Pinomaa⁴

¹Namibia University of Science and Technology, Namibia; ²Aalto University, Finland; ³Namibia University of Science and Technology, Namibia; ⁴Lappeeranta University of Technology

Community-led Video Creation: Towards Complementing Reformatory Programmes for Prison Inmates

ChukwuNonso Nwokoye, Chukwuemeka Etodike, Njideka Mbeledogu

Nnamdi Azikiwe Univeristy, Nigeria, Nigeria

A Low-cost Flexible IoT System Supporting Elderly's Healthcare in Rural Villages

Joseph Aneke¹, Carmelo Ardito², Danilo Caivano², Lucio Colizzi², Maria Francesca Costabile², Loredana Verardi²

¹University of Nigeria, Nsukka, Nigeria; ²University of Bari Aldo Moro, Italy

Digital Services for Entrepreneurs in Informal Settlements

Pietari Keskinen, Marko Nieminen
Aalto University, School of Science, Finland

Preserving the Ndebele dress code through the Internet of Things technologies

Andrew Smith¹, Nomusa Dlodlo²

¹CSIR Meraka Institute, South Africa; ²Namibia University of Science and Technology

Designing an interactive career guidance learning system using gamification

Annastasia Shipepe¹, Anicia Peters²

¹Namibia University of Science and Technology/University of Namibia, Namibia; ²Namibia University of Science and Technology

Bringing a Virtual String Quartet to Life

Elisabeth Thielen¹, Julien Letellier¹, Jürgen Sieck¹, Annette Thoma²

¹HTW Berlin, Germany, Research Group INKA; ²Konzerthaus Berlin