

Tentative ICT4DA Program

Bahir Dar University, Bahir Dar

May 28-30, 2019

	Tuesday May 28, 2019		Wednesday May 29, 2019		Thursday May 30, 2019		Friday May 31, 2019
09:00 – 09:45	Registration	Workshop on Machine learning	Registration	Opening Ceremony + Keynote 1 : Prof. Judy van Biljion	Registration	Keynote 3: Dr. Ethiopia Nigussie	Sightseeing Excursions • Bahir Dar City Sight Seeing • 16 th Century Island Monasteries of Tana • Source of the Blue Nile • The Blue Nile falls
9:45 – 11:00							
11:00 – 11:30		Coffee Break		Coffee Break		Coffee Break	
11:30 – 12:00		Panel I		Technical Symposia I 2 parallel sessions AI-DS I & NLP		Technical Symposia IV AI-DS III & WC III	
12:00 – 12:30							
12:30 – 13:00							
13:00 – 13:30	Sponsored Conference Lunch						
13:30 – 14:00							
14:00 – 14:45				Keynote 2: Prof.Bhekisipho Twala		Keynote 4:TBA	
14:50 – 16:20	Registration	Panel II	Registration	Technical Symposia II 2 parallel sessions WC I & AI-DS II	Registration	Tutorial on Spectrum Innovation	
16:20 – 16:40		Coffee Break		Coffee Break		Coffee Break	
16:40 – 18:10		Panel III		Technical Symposia III 2 parallel sessions WC II & MPN		Conference Closing Ceremony	
18:10 – 19:30	Welcome Reception			Conference Banquet and Award Ceremony			
20:00							

Technical Symposia I: Artificial Intelligence and Data Science (AI-DS I)

- Plant leaf disease classification using Convolutional Neural Networks
- A Collaborative Approach to Build a KBS for Crop Selection: Combining Experts Knowledge and Machine Learning Knowledge Discovery
- Knowledge Based System for Diagnosis and Treatment of Mango Diseases
- Modern CNNs for IoT Based Farms

Technical Symposia II: Artificial Intelligence and Data Science (AI-DS II)

- A Novel Adaptive Morpho Histo Wavelet Denoising (AMHW) Method in Pre-Processing for Dental X-Ray Images
- Stationary Wavelet Transform for Automatic Epileptic Seizure Detection
- Classical Machine Learning Algorithms and Shallower Convolutional Neural Networks towards Computationally Efficient and Accurate Classification of Malaria Parasites
- Knowledge Based Decision Support System for Detecting and Diagnosis of Acute Abdomen Using Hybrid Approach

Technical Symposia II: Artificial Intelligence and Data Science (AI-DS III)

- Towards Fuzzy Analytical Hierarchy Process Model for Performance Evaluation of Healthcare Sector Services
- A Genetic Algorithm-Based Approach for Test Case Prioritization
- Design of Hybrid Neuro-Fuzzy Controller for Magnetic Levitation Train Systems

Technical Symposia III: Wireless Communication (WC I)

- Optimization of Antenna Tilt for Addis Ababa LTE Deployment Scenario
- Performance Analysis of Vertical Sectorization for LTE Realistic Deployment Scenario
- Techno-economic Investigation of LTE-Advanced deployment for Africa: Case of Addis Ababa city
- Techno-economic Analysis of LTE Deployment Scenarios for Emerging City in Africa: A Case of Adama, Ethiopia

Technical Symposia IV: Wireless Communication (WC II)

- Low Complexity Radio Mobile Speed Estimation Using Count of Received Envelop Peaks and Troughs
- Peak-to-Average Power Ratio Reduction of OFDM Signals Using Selected Mapping
- Quality Evaluation for Indoor Mobile Data Customers in Addis Ababa Business Area Using Data from Network Management System, Walk Test, Crowdsourcing and Subjective Survey
- Improving Quality of Service of Border Gateway Protocol Multiprotocol Label Switching Virtual Private Network of EthioTelecom Service Level Agreements.

Technical Symposia IV: Wireless Communication (WC III)

- Performance Evaluation of 6-Sector Site and Small Cell for Addis Ababa UMTS Network
- How Much TV White Spaces is Available in Ethiopia Using Geolocation Spectrum White Space Database?
- SAMoC: Self-Aware Access Monitoring and Controlling Framework for Android

Technical Symposia V: Mobile and Pervasive Networks (MPN)

- Internet of Things Technology for Agriculture in Ethiopia: A Review
- Improvement of LEACH Protocol for Wireless Sensor Networks
- Towards A Design Research Model for Climate Services: Experiences from a Development Project in Mozambique
- An efficient security implementation with Power cane for Visually challenged

Technical Symposia VI: Natural Language Processing (NLP)

- A Scalable Text Classification Using Naive Bayes with Hadoop Framework
- Amharic Question Answering for Biography, Definition, and Description Questions
- Dictionary Based Amharic Sentiment Lexicon Generation
- Information Extraction Model for Afan Oromo News Text
- Design and Develop Sentence Parser for Afan Oromo Language