

Day 1: Morning – Afternoon, Tuesday May 28, 2019

Time	Topic	Panelists	Chair person
09:00 – 09:30	Registration		
09:31 -11:00	Workshop on Machine Learning	Graduate Students	Prof.B.Twala
11:01 - 11:20	Coffee Break		
11:25 – 12:55	Panel I: The role of Emerging ICT Technologies as a Solutions Revolution for the UN-SDGs.	Prof. J. Van Biljon, Prof B. Peterson, Prof B. Twala, Dr. A. Mohammed, Prof. E. Sutinen,	Prof. F. Mekuria
13:00 – 14:00	Sponsored Conference Lunch Break		
14:05 – 11:35	Panel II: CatChain-Catching-Up along the global value chain: business models, determinants and policy implications in the era of the Fourth Industrial Revolution:	Prof. F. Mekuria, Dr. E. Nigussie, Dr. R. Wario. Prof. Bo Peterson, Prof. B. Twala.	Prof.M. Muchie
11:35 – 11:55	Coffee Break		
16:00 – 17:30	Panel III: Emerging ICT Technologies for Sustainable Bilateral & Institutional Collaboration in Africa.	Dr T. Tegene, Prof. M. Muchie, Prof J. Van Biljon, Dr. B. Chakelu, Dr. A. Mohammed	Dr.E.Nigussie & Prof. F. Mekuria&
18: – 19:30	Welcome Reception		

Day 2: Morning, Wednesday May 29, 2019

Time	Topic	Speaker/Presenter	Chair person
08:30 – 08:50	Registration		
08:51 – 09:00	Program Introduction	Dr. T. Tegegne	Prof. F. Mekuria
09:01 – 09:10	Welcoming Speech by Scientific Director for Bahir Dar Institute of Technology	Dr.S. Admasu	
09:11 – 09:20	Guest Speech by Genera Director for ICT Development and Administration, Ministry of Innovation and Technology	Dr. A. Mohammed	
09:21 - 09:30	Official Opening Speech by President for Bahir Dar University	Dr. F. Tegegne	
09:35 -10:20	Keynote 1: International collaboration in ICT4D research and development: opportunities, challenges and best practices for sustainability	Prof.J. Van Biljon	Dr. T.Tegegne
10:21 – 10:35	Coffee Break		
Parallel Session I		Venue:	
	Technical Symposia I: Artificial Intelligence and Data Science I		
10:40 – 11:00	Plant leaf disease classification using Convolutional Neural Networks	Filmon Haile	Dr.M. Agegneghu
11:01 – 11:20	A Collaborative Approach to Build a KBS for Crop Selection: Combining Experts Knowledge and Machine Learning Knowledge Discovery	Mulualem Anley	
11:21 – 11:40	Knowledge Based System for Diagnosis and Treatment of Mango Diseases	Waltengus Birhanie	
1:41 – 12:00	Modern CNNs for IoT Based Farms	Patrick Gikunda	
12:01 – 12:20	Design and Develop Sentence Parser for Afan Oromo Language	Hailu Beshada	
12:21 – 12:40	Amharic Question Answering for Biography, Definition, and Description Questions	Tilahun Abedisa	
Parallel Session II		Venue:	

Technical Symposia II: Wireless Communication I			
10:40 – 11:00	Optimization of Antenna Tilt for Addis Ababa LTE Deployment Scenario	Taddege Assefa	Prof. F. Mekuria
11:01 – 11:20	Performance Analysis of Vertical Sectorization for LTE Realistic Deployment Scenario	Seifu Zeleke	
11:21 – 11:40	Techno-economic Investigation of LTE-Advanced deployment for Africa: Case of Addis Ababa city	Gizachew H/Gebriel	
11:41 – 12:00	Techno-economic Analysis of LTE Deployment Scenarios for Emerging City in Africa: A Case of Adama, Ethiopia	Dechasa Negash	
12:01 – 12:20	Improvement of LEACH Protocol for Wireless Sensor Networks	Atallo Takele	
12:21 – 12:40			
13:00 – 14:00	Sponsored Conference Lunch Break		
Day 2: Afternoon			
14:01 – 14:45	Keynote 2: Impact of Noise on Big Data Analytics	Prof. Bhekisipho T	Dr. Ethiopia N
Parallel Session I		Venue:	
Technical Symposia III: Artificial Intelligence and Data Science II			
14:50 – 15:10	A Novel Adaptive Morpho Histo Wavelet Denoising (AMHW) Method in PreProcessing for Dental X-Ray Images	Felix Joseph	Dr. Tesfa Tegegne
15:11 – 15:30	Stationary Wavelet Transform for Automatic Epileptic Seizure Detection	Gebremichael Shiferaw	
15:31 – 15:50	Classical Machine Learning Algorithms and Shallower Convolutional Neural Networks towards Computationally Efficient and Accurate Classification of Malaria Parasites	Yaacob Girmay	
15:51 – 16:10	Knowledge Based Decision Support System for Detecting and Diagnosis of Acute Abdomen Using Hybrid Approach	Alemu Workineh	
Parallel Session II		Venue:	

Technical Symposia IV: Wireless Communication II			
14:50 – 15:10	Low Complexity Radio Mobile Speed Estimation Using Count of Received Envelop Peaks and Troughs	Atli Gebretsadik	Dr. A. Mohammed
15:11 – 15:30	Peak-to-Average Power Ratio Reduction of OFDM Signals Using Selected Mapping	Workineh Abera	
15:31 – 15:50	Quality Evaluation for Indoor Mobile Data Customers in Addis Ababa Business Area Using Data from Network Management System, Walk Test, Crowdsourcing and Subjective Survey	Abera Reesom	
15:51 – 16:10	Improving Quality of Service of Border Gateway Protocol Multiprotocol Label Switching Virtual Private Network of EthioTelecom Service Level Agreements.	Asrat Mulatu	
16:11 – 16:25	Coffee Break		
Parallel Session I		Venue:	
Technical Symposia V: Artificial Intelligence and Data Science III			
16:30 – 16:50	Towards Fuzzy Analytical Hierarchy Process Model for Performance Evaluation of Healthcare Sector Services	George Musumba	Dr. B. Chakelu
16:51 – 17:10	A Genetic Algorithm-Based Approach for Test Case Prioritization	Sudhir Kumar	
17:11 – 17:30	A Scalable Text Classification Using Naive Bayes with Hadoop Framework	Mulualem Temesgen	
Parallel Session II		Venue:	
Technical Symposia VI: Wireless Communication III			
16:30 – 16:50	Performance Evaluation of 6-Sector Site and Small Cell for Addis Ababa UMTS Network	Tirufire Fulle	Dr.F. Gared
16:51 – 17:10	How Much TV White Spaces is Available in Ethiopia Using Geolocation Spectrum White Space Database?	Habib Mohammed	
17:11 – 17:30	SAMoC: Self-Aware Access Monitoring and Controlling Framework	Dr.Ethiopia Nigussie	
18:31 – 20:30	Conference Dinner		

Thursday May 30, 2019

Day 3: Morning

Time	Topic	Speaker/Presenter	Chair person
09:00 – 09:30	Registration		
09:31 -10:15	Keynote 3: Internet-of-Things for Development in Africa: opportunities and challenges	Dr.Ethiopia Nigussie	Dr. F. Mekuria
10:16 – 10:45	Discussion on African IoT Initiative (IoTI)	Dr. E. Nigussie	
10:46 – 11:30	Keynote 4: Spectrum Innovation for Emerging Economies	Prof.F. Mekuria	Dr.A. Mohammed
11:31 - 11:45	Coffee Break		
Parallel Session I		Venue:	
	Technical Symposia VII: Natural Language Processing		
11:50 – 12:10	Information Extraction Model for Afan Oromo News Text	Sisay Abera	Dr. Gebeyehu Belay
12:11 – 12:30	Dictionary Based Amharic Sentiment Lexicon Generation	Girma Nashir	
12:31 – 12:50	Design of Hybrid Neuro-Fuzzy Controller for Magnetic Levitation Train	Yakob Kiros	
Parallel Session II		Venue:	
	Technical Symposia VIII: Mobile and Pervasive Networks		
11:50 – 12:10	Internet of Things Technology for Agriculture in Ethiopia: A Review	Mebiratu Beyene	Prof. Bo Peterson
12:11 – 12:30	Towards A Design Research Model for Climate Services: Experiences from a Development Project in Mozambique	Jaakko Helminen	
12:31 – 12:50	An efficient security implementation with Power cane for Visually challenged	Saravanan J	



13:01 – 14:00	Sponsored Conference Lunch Break		
	Thursday May 30, 2019		
	Day 3: Afternoon		
14:30 – 18:00	Boat Trip to Lake Tana Monasteries and Closing Ceremony		