



International Conference on Information and Communication Technology for Development for Africa (ICT4DA 2021)

www.ict4daconf.org

22-24 November, 2021

Bahir Dar, Ethiopia

Call for Paper

3rd International Conference on Information and Communication Technology for Development for Africa (ICT4DA2021), will take place in Bahir Dar, Ethiopia on 22-24 November, 2021. ICT4DA2021 is aims to bring together researchers, engineers, developers, and practitioners from the academia and the industry to present and discuss their research work in the area of ICT for Development. This conference seeks to facilitate the transfer of experience, adaptation of methods, and where possible, foster collaboration among different groups.

All accepted and presented papers will be submitted to IEEE Xplore for publication. Due to the COVID pandemic, ICT4DA2021 will be held in hybrid mode where both in person and virtual presentations are allowed both. Please visit the conference web page for more details: <http://www.ict4daconf.org>. The topics of interest cover all aspects of ICT towards the socioeconomic development but not limited to the topics in the tracks below.

Track 1: Intelligent Systems & Data Science

- Decision support systems
- Autonomous multi-agent systems
- Fuzzy logic and fuzzy systems
- Machine Learning
- Summarization and Information Extraction
- Big Data modeling, Analytics and prediction
- Data analytics and machine learning
- Statistical learning algorithms, models and theories
- Text mining
- Uncertainty modeling of intelligent systems
- Data-science and AI applications for resource

limited areas

- ICT for meeting the sustainable development goals (ICT4SDG)
- IoT and AI Systems for water resource monitoring and management
- Application of AI in agriculture, healthcare, manufacturing, and etc.

Track 2: Wireless Communications & Emerging Networking

- Wireless, cellular & cognitive radio networking trends
- Network virtualization & software defined

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- networking
- Ad hoc and sensor networking
- Massive machine type communication and its applications
- Energy efficiency in networking & data centers
- Next Generation Networking: MIMO, tactile Internet & gigabit networks
- Smart grid & power-line communications
- Satellite and space communication
- QoS, reliability and modelling in next generation networks
- Smart Spectrum Sharing in Future Wireless Networks
- Wireless standards: WLAN, WPAN, RFID, and NFC
- Affordable broadband wireless networks for emerging economy
- 5th Generation Wireless and the sustainable development goals
- Wireless communications for intelligent transport systems and control
- Wearable computing and body area networks
- Social network applications and mobile computing
- Context and location aware applications and services
- IoT and smart sensing in the 4th Industrial Revolution (4th IR) applications.

Track 3: Circuits and Computing Systems

- Analog and mixed signal circuits and systems
- Communication circuits and systems
- Digital circuits, systems and signal processing
- Parallel and multicore architecture
- Power-efficient architectures
- Reconfigurable and heterogeneous architectures
- New platforms and hardware designs for low-power embedded systems
- Energy harvesting, and energy management systems
- Mobile and pervasive systems, including personal wearable devices, drones and robots
- Fault-tolerance, reliability, and verification

Track 4: Security and Privacy

- Access control and security models
- Cloud, mobile platforms and embedded systems security
- Internet, communication and network security
- Economics of security and privacy
- Forensics, hardware and biometric security

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- Software security and malware
- Intrusion detection and prevention systems
- Information & network security for resource limited environments
- Security and privacy for the Internet of Things
- Security and privacy policies in next generation networks & the 4th IR
- Usability vs security and privacy in the context of emerging economies
- Information societal for societal & e-Government services
- Summarization and Information Extraction
- Part of Speech Tagger
- Applications of NLP on Web, social media and Computational Social Science

Track 6: Human Computer Interaction

Track 5: Natural Language Processing (NLP)

- Speech Recognition, Speech Synthesis
- Dialogue and multilingual Interactive Systems
- Narrative understanding and commonsense reasoning
- Sentiment analysis and opinion mining
- Multimodal and grounded language processing
- Accessibility and assistive technologies
- Design of interactive entertainment systems
- Information visualization
- Interaction design for culture and development
- Interactive Systems Technologies and Engineering
- Social Interaction and Mobile HCI
- Tools for Design, Modelling, Evaluation
- User Experience-Based Approaches
- Child-Computer Interfaces
- Human-Robot Interaction
- Multi-Modal Interfaces
- Multi-User Interaction / Cooperation
- Ubiquitous and Context-Aware Computing
- User Interfaces for Web Applications, e-Government

Important Dates

- Paper Submission deadline: ~~July 23, 2021~~ July 31, 2021
- Acceptance Notification: ~~August 14, 2021~~ August 17, 2021
- Camera Ready Deadline: ~~September 10, 2021~~ September 17, 2021
- Registration Date: ~~01-October2021~~ September 17, 2021
- Conference Dates: November 22-24, 2021

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Paper Submission and Publication

Prospective authors are invited to submit full papers including results, tables, figures and references (which have not submitted or published or are not under consideration elsewhere) in PDF format. The submitted papers should be 6 pages long including, tables, figures and references and additional pages will be charged, in English and using the Using IEEE A4;Two-Column Format (IEEE Proceedings A4 Format

Template), through the submission portal: <https://easychair.org/conferences/?conf=ict4da>

Note: If an author doesn't have an Easychair account, you need to create an account first. Then, log in with the created account. Then, click on the "Submit" sign.

The submitted manuscript will be reviewed by at least three experts selected by the Technical Committee for their demonstrated knowledge of particular topics. Authors will be notified of the review results by email around notification date.

All accepted papers will be published in the conference proceeding by IEEE, and will be included in the **IEEE Xplore**, and be indexed by

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