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Nota di contenuto	On the prevalence of Boomerang Routing in Africa: Analysis and Potential Solutions -- Ego-Community Evolution Tracking in Instant Messaging Networks -- Investigation of Degradation in Crystalline Silicon Photovoltaic Modules after 10 years exposition in Senegal by Infrared (IR) and Electroluminescence (EL) -- Building Energy Audit in Nigeria: Some Guides for Energy Efficiency Building Regulations -- ICT Performance Indicators in Formal Education at the Secondary School Level in Rwanda -- The Impact of Over the Top Service Providers In The Rwandan Telecommunications Market: An Analysis of Business Models -- Challenges and Opportunities in Instrumentation and Use of High- Density EEG for Underserved Regions -- E-medicine: a secure transmission of electrocardiograms using chaotic oscillators synchronization -- Bringing Life Where There is no Light: a low-cost movie projection and data collection solution for underserved areas -- A study of the wind potential in climatic zones of Chad -- Beyond

participation: Welfare effects of genderdifferentiated group-based approaches under climate change in Kenya -- Climate change signals over Senegal River Basin using Regional Climate Models of the CORDEX Africa simulations -- Climate change mitigation potential in agricultural and forestry sector: The impact of expanded woody biomass co-firing on global climate stabilization -- Climate Change May Result in More Water Availability in Parts of the African Sahel -- Evaluation and updating of two regional design flow estimation in West Africa – the ORSTOM and CIEH methods -- Statistical Downscaling of Global Climate Model MIROC\_4h outputs to Precipitation in Rwanda -- An Internet of Things infrastructure for rainfall monitoring in Dakar -- A Parallelized Spark based version of mRMR -- Multi-scenario modelling of learning -- RailMon: Distance, Temperature and Location Railway Monitoring using IoT Technologies -- An Encoding for the Theta Model of Elliptic Curves -- BEDWE: a Decentralized Workflow Engine for Best-Effort Infrastructures -- A Robust Process to Identify Pivots inside Subcommunities In Social Networks.

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### Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the Second International Conference on Innovations and Interdisciplinary Solutions for Underserved Areas, InterSol 2018, and the 7th Colloque National sur la Recherche en Informatique et ses Applications, CNRIA 2018, held in Kigali, Rwanda, in March 2018. The 23 papers presented were selected from 56 submissions and issue the following themes: papers dealing with the evolution of performances of solar systems in Africa, papers addressing the issues is public health, telecom papers studying the business model of telecommunication, math models presenting the climatic phenomenon and finally health papers dealing with medical devices that are suitable to underserved areas. The proceedings also contain 7 papers from the co-located 7th CNRIA (Colloque National sur la Recherche en Informatique et ses Applications) focusing on network architecture and security, software engineering, data management, and signal processing. .

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