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Nota di contenuto	Predicting Runoff, Sediment and Management Scenarios for Reducing Soil Erosion in Data Scarce Regions, Blue Nile basin -- Morphological Changes in the Lower Reach of Megech River, Lake Tana Basin, Ethiopia -- Development of Rainfall Disaggregation Model in the Awash River Basin, Ethiopia -- Evaluation of Processing Conditions for Lentil and Corn Blend Extrudate -- Machine Repair Problem with Preventive Maintenance and multi Criteria Prioritization of Machines -- Cascaded hybrid device multilevel converters for wind mill applications -- Evaluation of Workplace Environmental Ergonomics and Method Development for Manufacturing Industries -- CSN 12050 Carbon Steel Mechanical Property Enhancement using Thermal treatment to Optimize

Product Sustainability -- Physico-Chemical Characterizations of Ethiopian Kaolin for Industrial Applications: Case Study WDP Propoxur Formulations -- Effect of Biochar Application Rate, Production (Pyrolysis) Temperature and Feedstock Type (Rice Husk/ Maize Straw) on Amendment of Clay-Acidic Soil -- Performance Comparisons of Solar Mixed and Indirect Dryers for Maize Grain drying -- Test and Characterization of Tensile Strength of Oxytenanthera Abyssinica and Yushania Alpina Bamboos -- Effects of soil and water conservation practices on runoff, soil and nutrient losses in Alekt Wenz watershed northwestern Ethiopian highland -- Optimization of Green Logistic Distribution Routing Problem with Multi Depot using Improved Simulated Annealing -- Failure mode analysis of automotive final drive gears -- Design, Fabrication and Testing of Animal Drawn Multiple Mouldboard Plough -- Design, Construction and Testing of Hybrid Solar-Biomass Cook Stove -- Design and Analysis of Low-Transition Address Generator -- Modeling of Induction Heating Inverter Using System Identification -- Development of Low cost Gemstone Polishing cum Cutting Machine -- Kinetic Modeling and Gas Composition analysis during Sawdust Pyrolysis -- Evaluating the Role of Runoff and Soil Erosion on Nutrient Loss in the Chenetale Watershed, Upper Blue Nile Basin, Ethiopia -- Adaptive Cloudlet Scheduling Algorithm Using Three Phase Optimization Technique -- Design and Development of Household Gasifier Cooking Stoves: Natural versus Forced Draft -- PSNR and Robustness comparison between DCT and SVD based Digital Image Watermarking against Different Noise and Attacks -- Multi-Font Amharic Character Image Recognition: Deep Learning Techniques -- Modeling and Control of Electro- Hydraulic Actuator -- Wind Energy Conversion System Model Identification and Validation -- Evolutionary based Clustering Protocol for Wireless Sensor Networks -- SMS Based Agricultural Information System for Rural Farmers -- Review on Dynamic Stall control in Airfoils -- Simulation study of inventory performance improvement in consumer products trade business unit using system dynamic approach -- Optimized Secure Scan Flip Flop to Thwart Side Channel Attack in Crypto-Chip -- Inbound Multi-Echelon Inventory Supply Network Model in Ethiopian Leather Industry: A Simulation Study -- Efficient FPGA Implementation of an Integrated Bilateral Key Confirmation Scheme for Pair-Wise Key-establishment and Authenticated Encryption -- Spatial analysis of groundwater potential using GIS based multi criteria decision analysis method in Lake Tana basin, Ethiopi -- Spectrum Sensing Using Adaptive Threshold Based Energy Detection for LTE Systems -- Evolving 3D Facial Expressions using Interactive Genetic Algorithms -- Comparative Study of Modulation Techniques for 5G Networks -- Phytoremediation Potential of Free Floating Plant Species for Chromium Wastewater: The Case of Duckweed, Water hyacinth, and Water lilies -- Rainfall-Runoff Process and Groundwater Recharge in the Upper Blue Nile Basin: The Case of Dangishta Watershed -- Testing the Bending Strength of Solid Bamboo and Hollow Bamboo Particleboard -- Investigations of the Influence of Fiber Orientation on Strength Properties of Agrostone Composites -- A Comparative Analysis of Watermarked and Watermark Images using DCT and SVD based Multiple Image Watermarking -- The Role of Natural Ecosystem in Purifying Municipal Wastewater in Bahir Dar Metropolitan City -- Analysis of Flexural Strength of Jute/Sisal Hybrid Polyester Composite.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the 6th International Conference on Advancement of Science and Technology, ICAST 2018, which took place in Bahir Dar, Ethiopia, in October 2018. The 47 revised full papers were carefully reviewed and

selected from 71 submissions. The papers present economic and technologic developments in modern societies in five tracks: agro-processing industries for sustainable development, water resources development for the shared vision in blue Nile basin, IT and computer technology innovation, recent advances in electrical and computer engineering, progresses in product design and system optimization.
