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Nota di contenuto	Agro-processing industries for sustainable development1 Organic Biofertilizer from Brewery Wastewater Sludges via Aerobic Composting Process -- Endosulfan pesticide dissipation and residue levels in khat and onion in a sub-humid region of Ethiopia -- Assessment of Ergonomics of Farming Activities for Backyard Vegetable Production in the North Western Ethiopia: Case of Dangishta Community -- n Integrated Approach to Solve Small Farm Holder's Mechanization Barriers in Ethiopia -- Production and Characterization of Glue from Tannery Hide Trimming Waste -- Kinetic modeling of quality change in Ethiopian Kent mango stored under different temperature -- Modeling

of Gasification of Refused Derived Fuel, Optimizations and Experimental Investigations -- On-farm Performance and Assessment of Farmers' Perceptions of Hermetic Bags for Farm-Stored Wheat and Maize in Northwestern Ethiopia -- Water resource and environmental engineering -- Developing Domestic Water Security Index in Urban Cities, Bahir Dar City, Ethiopia -- Performance Evaluation and Assessment of Quashni Small Scale Irrigation Scheme, In Amhara Region -- Evaluation of Shallow Ground Water Recharge and its Potential for Dry Season Irrigation at Brante Watershed, Dangila, Ethiopia -- Evaluating the Impacts of Climate Change on the Stream Flow Events in range of Scale of watersheds in the Upper Blue Nile Basin -- Soil water Dynamics on Irrigated garlic and peppe crops using Hydrus –1D model in the Lake Tana-Basin, North-western Ethiopia -- Evaluation of Stream Flow Prediction Capability of Hydrological Models in the Upper Blue Nile Basin, Ethiopia -- Dynamics of eutrophication and its linkage with Water hyacinth on Lake Tana, Upper Blue Nile, Ethiopia: Understanding Land-Lake linkage and process -- Multi-purpose reservoir operation analysis in the Blue Nile Basin, Ethiopia -- Evaluation of Co-composting Methods Using Effective Microorganisms -- Impact of Land Use and Landscape on Runoff and Sediment in the Sub-humid Ethiopian Highlands: The Ene-Chilala Watershed -- Urban Growth and Land Use Simulation using SLEUTH model for Adama City, Ethiopia -- Integration of SWAT and Remote Sensing Techniques to Simulate Soil Moisture in Data Scarce Micro-Watersheds: A case of Awramba micro-watershed in the Upper Blue Nile Basin, Ethiopia -- Pilot-scale horizontal subsurface flow constructed wet-land for Removal of Chromium from Tannery Waste Water with Suitable Local Substrate material -- Assessment of Industrial Effluent Pollution on Borekena River, Kombolcha, Ethiopia -- Planning, Designing and Performance Evaluation of Micro Wave Link Case Study from Wegeda to NefasMewucha -- Enhancement of power flow with reduction of power loss through proper placement of FACTS devices based on voltage stability index -- Designing and Modeling of a Synchronous Generator Using AGC, PSS, and AVR Case study on Tis Abay II Hydroelectric Power System -- Optimal Allocation of Distributed Generation for Performance Enhancement of Distribution System Using Particle Swarm Optimization -- Mobility Prediction in Wireless Networks Using Deep Learning Algorithm -- Basic Facial Expressions Analysis on a 3D Model: Based on Action Units and the Nose Tip -- Pareto Optimal Solution for Multi-Objective Optimization in Wireless Sensor Networks -- E-Learning Readiness of Technology Institutes in Ethiopian Public Universities: From the Teachers' Perspective -- Reconfigurable Integrated Cryptosystem for Secure Data Exchanges between Fog Computing and Cloud Computing Platforms -- Ethiopic Natural Scene Text Recognition Using Deep Automatic Amharic Part of Speech Tagging (AAPOST): A Comparative Approach Using Bidirectional LSTM and Conditional Random Fields (CRF) Methods.-Product design, manufacturing, and systems optimization 38 Effects of Shielded Metal Arc Welding Process Parameters on Mechanical Properties of S355JR Mild Steel -- Development and Testing of Improved Double Skirt Rocket Stove for reducing the emission level of Carbon monoxide -- Shell and Tube Heat Exchanger, Empirical Modeling Using System Identification -- A Review on Design and Performance of Improved Biomass Cook Stoves -- Experimental investigation of augmented horizontal axis wind turbine -- Design and Simulation of Waste Heat Recovery System for Heavy Oil Preheating In Dashen Brewery Company -- Performance Evaluation of Motorized Maize Sheller -- Computational Fluid Dynamic Modeling and Simulation of Red Chili

Solar Cabinet Dryer -- Development and Performance Evaluation of a Solar Baking Oven -- Design and Optimization of Continuous Type Rice Husk Gas Stove -- Assessment of Quality of Sand Sources and the Effect on the Properties of Concrete (The Case of Bahir Dar and Ist Vicinities) -- Fabrication and Characterization of Metakaolin Based Flat Sheet Membrane for Membrane Distillation -- The Effect of Mechanical Treatment and Calcination Temperature of Ethiopian Kaolin on Amorphous Me-takaolin Product -- nalysis of Bending and Tensile Strength of Sisal / Bamboo / Polyester Hybrid Composite -- ynamic Mechanical Properties of Kenaf, Thespesia lampas and Okra Fiber Polyester Composites -- ynthesis and characterization of betaWollastonite from limestone and rice husk as reinforcement filler for clay based ceramic tiles -- Experimental Investigation of Bending Strength of Oxytenanthera Abyssinica and Yushania Alpina Bamboos -- Plasma polymer deposition of neutral agent carvacrol on a metallic surface by using dielectric barrier discharge plasma in ambient air.

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Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the 7th International Conference on Advancement of Science and Technology, ICAST 2019, which took place in Bahir Dar, Ethiopia, in August 2019. The 76 revised full papers were carefully reviewed and selected from more than 150 submissions. The papers present economic and technologic developments in modern societies in five tracks: agro-processing industries for sustainable development, water resources and environmental engineering, recent advances in electrical, electronics and computing technologies, product design, manufacturing and systems organization, and material science and engineering.

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