

1. Record Nr.	UNINA9910720068303321
Titolo	Proceedings of the 8th Brazilian Technology Symposium (BTSym'22) : Emerging Trends and Challenges in Technology // edited by Yuzo Iano, Osamu Saotome, Guillermo Leopoldo Kemper Vásquez, Maria Thereza de Moraes Gomes Rosa, Rangel Arthur, Gabriel Gomes de Oliveira
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031310072 9783031310065
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (577 pages)
Collana	Smart Innovation, Systems and Technologies, , 2190-3026 ; ; 353
Disciplina	609.81
Soggetti	Internet of things Technology - Sociological aspects Internet of Things Emerging Technologies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Artificial Neural Networks for Prediction of Hot Metal Production in a Blast Furnace -- The Method of Ontological Designing of Complex Structural Events in the Study of Strikes of Aircraft with Wildlife -- Effect Analysis of Service Entrance Box on the Wireless Communication Performance of Home Electric Power Meters -- A Digitally Controlled Delay Generator Implemented with Cyclone V FPGA using Timing Analysis -- Design study of the electric power supply system between Punta Arenas residential complex and Petroperú's Talara Refinery through an Automatic Load Transfer System, Piura - Peru -- Application of cluster analysis to electricity generation data from the Santo Antônio hydroelectric plant in the state of Rondônia, Brazil -- Changes in salivary pH after application of xylitol toothpaste using a digital pH meter: a pilot study -- PID Controller Optimized based on PSO for Trajectory Tracking of Free-Floating Satellite Robotic Manipulator -- Aquatic quantification of toxic heavy metals due to physical-chemical factors in meat production of <i>Oncorhynchus mykiss</i>

(rainbow trout) in controlled open systems case: Lagunillas-Lampa, Puno -- Footprints' effectiveness as decision-making tools for promoting sustainability -- Analysis of deforestation at an annual rate in the Sub-basins of the Rio Mayo and its relationship with Precipitation -- A machine learning study to classify the type of anemia in children under 5 years of age -- Appreciation of virtual teaching compared to face-to-face teaching during the SARS-Cov-2 pandemic by clinical students in undergraduate Dentistry -- Influence of adaptive traffic lights for delay and conflict reduction applying the SSAM model at an urban intersection -- Influence of the earthquake generating mechanism of Peru, Chile, the United States and Italy on their respective seismic isolation standards -- Antibacterial effect of the ethanolic extract of *Curcuma longa* L. and *Erythroxylum coca* var. *coca* at different concentrations against *Streptococcus mutans*: Comparative study in vitro -- Management of Family Businesses in The Face of the New Scenario of Global Digital Transformation -- Assessing the early-age drying shrinkage cracking in polyamide and alkali resistant glass microfibers reinforced concrete.

## Sommario/riassunto

This book presents the proceedings of the 8th Brazilian Technology Symposium (BTSym'22). The book discusses current technological issues on Systems Engineering, Mathematics, and Physical Sciences, such as the Transmission Line, Protein-Modified Mortars, Electromagnetic Properties, Clock Domains, Chebyshev Polynomials, Satellite Control Systems, Hough Transform, Watershed Transform, Blood Smear Images, Toxoplasma Gondii, Operation System Developments, MIMO Systems, Geothermal-Photovoltaic Energy Systems, Mineral Flotation Application, CMOS Techniques, Frameworks Developments, Physiological Parameters Applications, Brain-Computer Interface, Artificial Neural Networks, Computational Vision, Security Applications, FPGA Applications, IoT, Residential Automation, Data Acquisition, Industry 4.0, Cyber-Physical Systems, Digital Image Processing, Patterns Recognition, Machine Learning, Photocatalytic Process, Physical-Chemical Analysis, Smoothing Filters, Frequency Synthesizers, Voltage Controlled Ring Oscillator, Difference Amplifier, Photocatalysis, and Photodegradation, and current technological issues on Human, Smart, and Sustainable Future of Cities, such as the Digital Transformation, Data Science, Hydrothermal Dispatch, Project Knowledge Transfer, Immunization Programs, Efficiency and Predictive Methods, PMBOK Applications, Logistics Process, IoT, Data Acquisition, Industry 4.0, Cyber-Physical Systems, Fingerspelling Recognition, Cognitive Ergonomics, Ecosystem Services, Environmental, Ecosystem Services valuation, Solid Waste, and University Extension.