1. | Record Nr. | UNINA9910799218603321 |

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Titolo	Cognitive Computing and Cyber Physical Systems : 4th EAI International Conference, IC4S 2023, Bhimavaram, Andhra Pradesh, India, August 4-6, 2023, Proceedings, Part II / / edited by Prakash Pareek, Nishu Gupta, M. J. C. S. Reis
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031488917
	3031488911
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (394 pages)
Collana	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, , 1867-822X ; ; 537
Altri autori (Persone)	GuptaNishu
	ReisM. J. C. S
Disciplina	621.3821
	004.6
Soggetti	Computer networks
	Artificial intelligence
	Application software
	Computers, Special purpose
	Computer Networks
	Artificial Intelligence
	Computer and Information Systems Applications
	Special Purpose and Application-Based Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Smart Power Systems -- Performance Evaluation of Off Grid Hybrid Distribution system with ANFIS controller -- Full Swing Logic Based Full Adder for Low Power Applications -- Single-phase Grid and Solar PV Integration with 15-level asymmetrical multilevel inverter -- A Review on Controlling charging process and discharging of Electric Vehicles in the Distribution Grid -- Area Efficient and Ultra Low Power Full Adder Design based on GDI Technique for Computing Systems -- Area Efficient and Ultra Low Power Full Adder Design based on GDI Technique for Computing Systems -- IOT-Based Hi-Tech Battery Charger for Modern EVs -- Comparative Analysis of PWM methods for

Three Level Neutral Point Clamped Inverter -- Smart City Eco-system and Communications -- Single use Plastic Bottle recognition and classification using YOLO V5 and V8 architectures -- Model Predictive Controller (MPC) and Proportional Integral Derivative Control (PID) for Autonomous Lane Keeping Maneuvers: A Comparative Study of Their Efficacy and Stability -- Performance evaluation of DSR, AODV and MP-OLSR Routing Protocols using NS-2 Simulator in MANETs -- Efficient Fuel Delivery at Your Fingertips: Developing a Seamless On-Demand Fuel Delivery App with Flutter -- An IoT application based Decentralized Electronic Voting System Using Blockchain -- NeuroRobo: Bridging the Emotional Gap in Human-Robot Interaction with Facial Sentiment Analysis, Object Detection, and Behavior Prediction -- Equalization Based Soft Output Data Detection for Massive MU-MIMO-OFDM Using Coordinate Descent -- Performance Analysis of Hybrid BPSK-MPPM Modulated Multicore Fiber Interconnect System -- Performance Evaluation of Optical Links: With and Without Forward Error Correcting Codes -- Investigation of Highly Sensitive and Linearly Responsive SAW based Gas Sensor for Better N2 Detection -- Turnstile Diamond Dipole Nanoantenna based Smart City Compatible Thin Film Solar Cell -- Efficient Quality Factor Prediction of Artificial Neural Network Based IsOWC System -- Tunable UWB Metasurface Absorber for Smart City Compatible IoT Applications -- Optimal Time Splitting in Wireless Energy Harvesting-Enabled Sensor Networks -- Design and Parametric Study of Monopole Blade Antenna for UHF-Band Aerospace Applications -- Transmission Losses Due to Surface Reflections in Deep Water for Multipath Model -- Performance Evaluation of Multicast Routing Protocols in Mobile Ad Hoc Networks -- Analysis of Acoustic Channel Characteristics in Shallow Water Based on Multipath Model -- Development of Cost-Effective Water Quality Monitoring for Potable Drinking Water using IoT -- Smart IV Bag Monitoring System for Effective Monitoring of Patients -- Automatic Safety and Monitoring System using ESP8266 with cloud platform -- Comparison of Acoustic Channel Characteristics for Direct and Multipath Models in Shallow and Deep Water -- Clustering Based Hybrid Optimized Model for effective data transmission -- A Web-Based Vaccine Distribution System for Covid-19 using Vaxallot.

Sommario/riassunto	This 2-volume set constitutes the post-conference proceedings of the 4th International Conference on Cognitive Computing and Cyber Physical Systems, IC4S 2023, held in Bhimavaram, Andhra Pradesh, India, during August 4-6, 2023. The theme of IC4S 2023 was: cognitive approaches with machine learning and advanced communications. The 70 full papers were carefully reviewed and selected from 165 submissions. The papers are clustered in thematical issues as follows: machine learning and its applications; cyber security and signal processing; image processing; smart power systems; smart city eco-system and communications.