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Collana	Information Systems and Applications, incl. Internet/Web, and HCI, , 2946-1642 ; ; 11703
Disciplina	004.6
Soggetti	Application software Artificial intelligence Computer arithmetic and logic units Computer networks Computer and Information Systems Applications Artificial Intelligence Arithmetic and Logic Structures Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Biometrics and Pattern Recognition Applications -- Evaluating Performance and Accuracy Improvements for Attention-OCR -- Multi-muscle MRI Texture Analysis for Therapy Evaluation in Duchenne Muscular Dystrophy -- An Online Pattern based Activity Discovery: In Context of Geriatric Care -- Ships Detection on Inland Waters Using Video Surveillance System -- Signature image improvement with gradient adaptive morphology -- An algorithm for detecting the expressive musical gestures of violinists based on IMU signals -- An Algorithm for Exact Retinal Vein Extraction -- Diagnosing Parkinson's disease with the use of a reduced set of patients' voice features samples -- Computer Information Systems -- Big Data and the Internet of Things in Edge Computing for Smart City -- Some Artificial

Intelligence Driven Algorithms for Mobile Edge Computing in Smart City -- Geographic Location based Dynamic and Opportunistic RPL for Distributed Networks -- Dynamic Scheduling of Traffic Signal (DSTS) management In Urban Area Network -- Evaluation of the existing tools for fake news detection -- A Model-driven Approach for Simplified Cluster Based Test Suite Optimization of Industrial Systems - An Introduction to UMLTSO -- Linking Open Drug Data: Lessons Learned -- Cluster based framework for alleviating buffer based congestion for wireless sensor network -- Type-driven Cross-Programming for Android and LEGO Mindstorms Interoperability -- Industrial Management and other Applications -- Implementation of the single minute exchange of die (SMED) principles for the improvement of the productivity in a steel company in Colombia -- Teleagro: IOT applications for the georeferencing and detection of zeal in cattle -- The Role of Innovation in Cloud-Based ERP Adoption -- Application of Work Study to process improvement: Fruit nectar case -- UML Profiling for Software Systems in Medical Device Manufacturing -- Economic losses reduction through the implementation of statistical process control: Case study in the process of medical accounts in a technology company -- Machine learning and High Performance Computing -- Production effectiveness improvement with the use of Tabu Search -- Gentle AdaBoost Algorithm with Score Function Dependent on the Distance to Decision Boundary -- Software Development Metrics Prediction Using Time Series Methods -- Tag-cloud Based Recommendation for Movies -- Real Time Key Frame Extraction through Parallel Computation of Entropy Difference -- Sequence Analysis for Relationship Pattern Extraction -- Performance of User Data Collections Uploads to HPCaaS Infrastructure -- Research of the possibilities of Neural Network predictive modeling of Hydrodynamic processes based on Singularly Perturbed Problems -- Modelling and Optimization -- Multi-Criteria Decision Making Problem for Doing Business: Comparison between Approaches of Individual and Group Decision Making -- The Modeling of a Programming Language Syntax Based on Positional Entropy -- Two FPGA devices in the problem of finding minimal reducts -- An event-based parameterized active scheduler for classical Job Shop Problem -- Lossless and lossy audio codecs for low-performance microcontrollers for use in IoT -- Performance and resilience to failures of an cloud-based application: monolithic and microservices-based architectures compared -- Design of a state estimation considering model predictive control strategy for a nonlinear water tanks process -- Balanced Power, Speed and Area Minimization of Finite State Machines for FPGA devices -- An Addressing Scheme for Massive Sensor Networks -- Coding techniques in Verilog for finite state machine designs in FPGA -- Various Aspects of Computer Security -- CollabChain: Blockchain-backed Trustless Web-based Volunteer Computing Platform -- A fast method for security protocols verification.

Sommario/riassunto

This book constitutes the proceedings of the 18th International Conference on Computer Information Systems and Industrial Management Applications, CISIM 2019, held in Belgrade, Serbia, in September 2019. The 43 full papers presented together with 3 abstracts of keynotes were carefully reviewed and selected from 70 submissions. The main topics covered by the chapters in this book are biometrics, security systems, multimedia, classification and clustering, industrial management. Besides these, the reader will find interesting papers on computer information systems as applied to wireless networks, computer graphics, and intelligent systems. The papers are organized in the following topical sections: biometrics and pattern

recognition applications; computer information systems; industrial management and other applications; machine learning and high performance computing; modelling and optimization; various aspects of computer security.
