1. Record Nr. UNINA9910857787303321 Rocha Álvaro Autore Titolo Good Practices and New Perspectives in Information Systems and Technologies: WorldCIST 2024, Volume 2 Cham:,: Springer International Publishing AG,, 2024 Pubbl/distr/stampa ©2024 **ISBN** 3-031-60218-8 Edizione [1st ed.] Descrizione fisica 1 online resource (293 pages) Collana Lecture Notes in Networks and Systems Series ; ; v.986 AdeliHojjat Altri autori (Persone) DzemydaGintautas MoreiraFernando Poniszewska-MaradaAneta Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Intro -- Preface -- Organization -- Contents -- Intelligent and Decision Support Systems -- MAGNAT: Maritime Management Ensemble Learning System -- 1 Introduction -- 2 Related Work -- 3 MAGNAT -- 3.1 Principle -- 3.2 Model Architecture Design -- 3.3 Intelligent Aggregation -- 4 Performance Evaluation -- 5 Discussions -- 6 Conclusion -- References -- Stock Market Prediction: Integrating Explainable AI with Conv2D Models for Candlestick Image Analysis -- 1 Introduction -- 1.1 Objectives of the Research -- 2 Related Work -- 3 Method -- 4 Experiments and Results -- 4.1 Dataset -- 4.2 Model Architecture -- 4.3 Explainable Al Techniques -- 4.4 Evaluation Metrics -- 4.5 Experimental Design -- 4.6 Model Training and Accuracy -- 5 Discussion -- 5.1 Explainability -- 5.2 Insights Gained -- 5.3 Limitations and Future Work -- 6 Conclusion -- References --

Resources Optimization and Value-Based Prioritization for at Risk Cultural Heritage Assets Management -- 1 Introduction -- 2 Literature

Conclusion -- References -- Expert Systems in Information Security: A Comprehensive Exploration of Awareness Strategies Against Social

Review -- 3 Optimization of the Rescue and Recovery Process for Cultural Heritage Assets -- 4 Results and Discussion -- 5

Engineering Attacks -- 1 Introduction -- 2 Social Engineering -- 2.1 Social Engineering Attacks -- 3 Snowball: Strategy -- 4 Results -- 4.1 Summary Introduction to Results -- 4.2 Overview of Seed Articles -- 5 Discussion -- 6 Conclusion -- 7 Recommendations for Future Research -- References -- Multi-class Model to Predict Pain on Lower Limb Intermittent Claudication Patients -- 1 Introduction -- 2 Case Study -- 2.1 Feature Extraction and Correlation -- 2.2 Pain Prediction Models -- 3 Results -- 3.1 Classification Tree Models -- 3.2 7-Nearest Neighbors Models -- 4 Discussions -- 5 Conclusions and Future Work -- Peterences

References. Collaborative Filtering Recommendation Systems Based on Deep Learning: An Experimental Study -- 1 Introduction -- 2 Deep Learning-Based Recommender System -- 2.1 Deep Learning-Based Collaborative Filtering Recommender Systems -- 2.2 Deep Learning Models -- 2.3 Challenges of Collaborative Filtering Recommender Systems Based on Deep Learning -- 3 Results -- 3.1 Experimentl Setup -- 3.2 Experimental Results -- 4 Conclusions and Future Work -- References -- Assessment of LSTM and GRU Models to Predict the Electricity Production from Biogas in a Wastewater Treatment Plant -- 1 Introduction -- 2 Material and Methods -- 3 Experiments -- 4 Results and Discussion -- 5 Conclusions -- References -- Fusing Temporal and Contextual Features for Enhanced Traffic Volume Prediction -- 1 Introduction -- 2 Related Work -- 3 Methodology -- 3.1 Dataset -- 3.2 Data Preprocessing -- 3.3 LSTM for Traffic Data Prediction -- 3.4 LSTM and Categorical Features Integration in a Hybrid Neural Network -- 3.5 Evaluation Metrics -- 4 Experimental Results -- 4.1 Training -- 4.2 Performance Comparison for Traffic Volume Prediction -- 4.3 Feature Influence Analysis -- 5 Conclusion and Future Work -- References --Target-vs-One and Target-vs-All Classification of Epilepsy Using Deep Learning Technique -- 1 Introduction -- 2 Epilepsy Seizure and Computational Techniques -- 2.1 Epilepsy Seizure (ES) -- 2.2 Computational Techniques to Classify the ES -- 3 Propose Framework and Evaluation Setup -- 3.1 Subject Dataset and Preprocessing -- 3.2 Model Evaluation Setup -- 3.3 TvO Strategy for ES Using Deep Learning -- 3.4 TvA Strategy for ES Using Deep Learning -- 4 Results and Discussion -- 5 Conclusion -- References -- Health Informatics --OralDentalSoft: Open-Source Web Application for Dental Office Management -- 1 Introduction -- 2 Related Work. 3 Description of the Proposed Methodology for Open-Source Development: OSCRUM -- 4 Case Study -- 5 Case Study Results -- 6 Discussion of Results -- 7 Conclusion and Future Work -- References -- A Scoping Review of the Use of Blockchain and Machine Learning in Medical Imaging Applications -- 1 Introduction -- 2 Methods -- 3 Results -- 3.1 Studies' Selection -- 3.2 Demographic Characteristics --3.3 Purposes of the Studies -- 3.4 Experimental Characteristics of the Studies -- 4 Discussion and Conclusion -- References -- The Role of Electronic Health Records to Identify Risk Factors for Developing Long COVID: A Scoping Review -- 1 Introduction -- 2 Methods -- 3 Results -- 3.1 Studies' Selection -- 3.2 Geographical Distribution --3.3 Studies' Design -- 3.4 Risk Factors -- 4 Discussion -- 5 Conclusion -- References -- Machine Learning Approaches to Support Medical Imaging Diagnosis of Pancreatic Cancer - A Scoping Review -- 1 Introduction -- 2 Methods -- 2.1 Databases Search -- 2.2 Inclusion and Exclusion Criteria -- 2.3 Selection Procedures -- 2.4 Synthesis and Reporting -- 3 Results -- 3.1 Selection Process -- 3.2 Demographic Characteristics of the Included Studies -- 3.3 Experimental Characteristics of the Included Studies -- 4 Discussion --5 Conclusion -- References -- Virtual Reality in the Pain Management

of Pediatric Burn Patients, A Scoping Review -- 1 Introduction -- 2 Methods -- 3 Results -- 3.1 Selection of the Studies -- 3.2 Geographical Distribution -- 3.3 Studies' Design and Participants --3.4 VR Interventions -- 3.5 Clinical Outcomes -- 4 Discussion and Conclusion -- References -- Defining the "Smart Hospital": A Literature Review -- 1 Introduction -- 2 Literature Review -- 2.1 Theoretical Background -- 2.2 Smart Hospital Equipment and Systems -- 2.3 Smart Hospital Services -- 3 A Comparison of Terms -- 3.1 Agile Hospital. 3.2 Green Hospital -- 3.3 Hybrid Hospital -- 4 Conclusions and Future Thoughts -- References -- Deep Learning for Healthcare: A Web-Microservices System Ready for Chest Pathology Detection -- 1 Introduction -- 2 Related Work -- 3 Methods -- 3.1 Front-End Development -- 3.2 Back-End Development -- 3.3 Al Model Integration and Pathology Prediction -- 4 Results -- 4.1 Performance Evaluation of the Model -- 4.2 Al Explainability Integration -- 5 Discussion -- 6 Conclusions -- 7 Future Works -- References -- Risk Factors in the Implementation of Information Systems in a Federal University Hospital -- 1 Introduction -- 2 Related Work -- 3 Theoretical Framework -- 3.1 Information Technology Risk -- 3.2 Hospital Information System -- 3.3 Implementation of the Management Application for University Hospitals - AGHU -- 3.4 Description of the Risk Factors Identified in the Literature and Presented by Santos et al. (2020) -- 4 Methodology -- 5 Results -- 5.1 Profile of Specialists by Length of Service -- 5.2 Risk Factor (FR1): Change of Environment -- 5.3 Risk Factor (FR2): Difficulty in Using the System -- 5.4 Risk Factor (FR3): Data Manipulation Failure -- 5.5 Risk Factor (FR4): Lack of Resources -- 5.6 Risk Factor (FR5): Emergence of New Requirements -- 5.7 Risk Factor (FR6): Installation Problem -- 5.8 Risk Factor (FR7): Crashing and Restart Issues -- 5.9 Risk Factor (FR8): Testers Don't Do a Good Job -- 5.10 Risk Factor (RF9): Effect on the Environment -- 5.11 Risk Factor (FR10): Too Many Software Failures -- 5.12 Risk Factor (FR11): User's Resistance to Change -- 5.13 Other Risk Factors Identified -- 5.14 Relative Frequency by Response Category -- 5.15 Degree of Agreement of Answers -- 5.16 TreeMap: Percentage of Comparison of the Risk Factors Found in the Literature in Relation to the Risk Factors Identified in the Implementation of the AGHU. 6 Conclusion -- References -- The Challenges of Blockchain in Healthcare Entrepreneurship -- 1 Introduction -- 2 Theories and Concepts -- 3 Applications of Blockchain to Entrepreneurial Health Projects -- 4 Challenges -- 5 Discussion -- 6 Conclusion and Further Research -- References -- Determinants Associated with Treatment Discontinuation in Tacna Health Network Tuberculosis Patients -- 1 Introduction -- 2 Method -- 3 Results -- 4 Discussion -- 5 Conclusions -- References -- Comprehensive Analysis of Feature Extraction Methods for Emotion Recognition on Motor Imagery from Multichannel EEG Recordings -- 1 Introduction -- 2 Related Work -- 3 Background and Theory -- 3.1 Notch Filtering -- 3.2 High-Pass Filtering -- 3.3 Down-Sampling Filter -- 3.4 CAR Montage Filter -- 3.5 Statistical Features -- 3.6 Wavelet Analysis Features -- 3.7 Higher Order Spectra Features -- 3.8 Hjorth Features -- 3.9 Fractal Dimension Features -- 3.10 GSVM Classifier -- 3.11 CART Classifier -- 4 Methodology -- 4.1 Dataset -- 4.2 Design -- 4.3 Implementation -- 5 Experiments and Results -- 5.1 Experimental Setup -- 5.2 Evaluation Metrics -- 5.3 Results -- 6 Discussion -- 7 Conclusion -- References -- Control of Respiratory Ventilators Using Boussignac Valve -- 1 Introduction -- 2 Model of Respirator-Human Interaction Using Boussignac Valve Simulator -- 2.1 Model of the Boussignac Valve

and Control System -- 2.2 Compartment Model of Lung -- 2.3 System Control Based on Boussignac Valve -- 3 Conclusion -- References -- Deep Learning Brain MRI Segmentation and 3D Reconstruction: Evaluation of Hippocampal Atrophy in Mesial Temporal Lobe Epilepsy -- 1 Introduction -- 2 Subjects and MR Imagining -- 3 Proposed Approach for the 2D Image Segmentation and 3D Objects Asymmetry Analysis -- 3.1 Preprocessing and Data Augmentation -- 3.2 Post-processing.

3.3 Hippocampus Volume and Asymmetry Index Computing.