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	Nota di contenuto	Keynote -- Supporting Image Search: A Compelling Application for Vision Processing -- Visualisation And Digital Innovation -- Color Aesthetic Enhancement for Categorical Data Visualization -- A Preliminary Model of Learning Analytics to Explore Data Visualization on Educator's Satisfaction and Academic Performance in Higher Education -- An Analytical Reasoning Framework for Visual Analytics Representation -- Literature survey on Aircraft Maintenance Issues with Human Errors and Skillset Mismatch using Document Mining Technique

-- Interactive Tangible Game for Collaborative Play between Children with Cerebral Palsy -- Establishing Field of Study: Towards development of a multilingual model for auto-detection of cyberbullying using fuzzy-crisp rules and Internet crowd data -- Identifying the Presence of Cyberbullying in Tamil-English Phonetic Words using Browser Plugin -- Visual Learning Application in Mathematics Using Holographic Display based on Multi-Touch Technology -- Systematic Review of Common Factors used to Measure Individuals' Career Choice -- Interaction Design for Digital Saron Musical Instruments Using Call and Response System and Rhythmic Emphasis Weighting Methods -- A User Experience Model for Designing Educational Mobile Application -- Evidence-Based of Interactive Multimedia-Based Nutrition Education Package Efficacy on Obesity Outcomes Through Game and Video Intervention -- Evidence-based of Improved Electron Tomogram Segmentation and Visualization through High Pass Domain Kernel in Bilateral Filter -- VR-based Relaxation Therapy for Customer Service Staff: A Pilot Study -- Fusion Technology and Visualisation to Share STEM Data Using PETS Robots (i-COMEL) for Open Data Readiness Amongst Primary School Children -- Interactive Multimedia Kolb Experiential Learning Model Using Logistic Regression Algorithm to Improve Student Cognitive -- Performance Analysis of Machine Learning Techniques for Sentiment Analysis -- National Sport Institute Case: AutomatedData Migration Using Talend Open Studio With 'Trickle Approach' -- Engineering and Digital Innovation -- Mudahnya BM: A Context-Aware Mobile Cloud Learning Application Using Semantic-Based Approach -- Software Redocumentation Using Distributed Data Processing Technique to Support Program Understanding for Legacy System: A Proposed Approach -- System Design and Usability Evaluation of Ghana Music Documentation System Using the System Usability Scale -- Static Indoor Pathfinding with Explicit Group Two-Parameter Over Relaxation Iterative Technique -- Use of Faceted Search: The Effect on Researchers -- Sustainable Product Innovation using Patent Mining and TRIZ -- Personalised Smart Mobility Model for Smart Movement during Pandemic Covid-19 -- Intelligent Multi-Cellular Network Connectivity for Internet of Things Applications -- A Performance Study on Emotion Models Detection Accuracy in a Pandemic Environment -- IoT-based System for Real-time Swimming Pool Water Quality Monitoring -- The Preliminary Study of Traffic Impact Analysis for Developing Countries in Southeast Asia -- Search Operators Based on TRIZ for Optimising PCB Assembly Time -- A Model for Teaching and Learning Programming Subjects in Public Secondary Schools of Malaysia -- GPU-Accelerated Enhanced Marching Cubes 33 for Fast 3D Reconstruction of Large Bone Defect CT Images -- Cyber Security & Machine Learning and Digital Innovation -- Malware Classification based on System Call -- A Conceptual Model: Securing Resources Through a Decentralized Access Control using Blockchain Technology for Smart Farming -- Traffic Flow Prediction using Long-Short Term Memory Technique for Connected Vehicles in Smart Cities -- A Machine Learning Classification Application to Identify Inefficient Novice Programmers -- Minimizing Classification Errors in Imbalanced Dataset Using Means of Sampling -- The Mediating Role of Cloud Computing and Moderating Influence of Digital Organizational Culture Towards Enhancing SMEs Performance -- Arabic Speaker Identification System for Forensic Authentication using K-NN algorithm -- A Recent Research on Malware Detection Using Machine Learning Algorithm: Current Challenges and Future Works -- Symptoms-Based Network Intrusion Detection System -- Impact Analysis and Correlation Study on the Spread of Fake News during

Pandemic Covid-19 in Malaysia -- Machine Learning Classification for Blood Glucose Performances using Insulin Sensitivity and Respiratory Scores in Diabetic ICU Patients -- Forecasting of Carbon Monoxide Concentration based on Sequence-to-Sequence Deep Learning Approach -- Infodemiology Framework for COVID-19 and Future Pandemics Using Artificial Intelligence to Address Misinformation and Disinformation -- Object Detection Model Training Framework for Very Small Datasets Applied to Outdoor Industrial Structures -- A Comparison of ML and DL Approaches for Crowd Analysis on the Hajj Pilgrimage -- Movement Estimation using Mediapipe BlazePose -- Energy Informatics andDigital Innovation -- Awareness on Energy Efficient Products as Prediction on Intention to Subscribe to and Purchase Energy Efficient Services and Products -- Algebraic Operations-based Secret-Key Design for Encryption Algorithm (ASKEA) for Energy Informatics and Smart Internet of Things (IoT) Applications -- Comparison of Electricity Load Prediction Errors between Long Short-Term Memory Architecture and Artificial Neural Network on Smart Meter Consumer -- Study on the Contributing Factors in e-Hailing Waste Management Systems for Mobile Application Adoption and Usage -- Establishing Valid and Reliable Measures for Residential Consumer Behaviour towards New Technology Electricity Appliances: An Exploratory Factor Analysis -- Energy Efficiency through a Wearable Device for the Elderly based on the Integrated Smart Neighbourhood Framework of Malaysia 5.0 Model -- Investigating the Contributing Factors of Continuance Use of Smart Meter in Melaka -- Highlighting the Contributing Factors of Smart Meter (SM) Adoption in Klang Valley -- Virtualization technology to support green computing among IT personnel in the public sector -- Willingness of Electricity Consumer in Malaysia to Share Electric Energy Consumption Data -- Challenges and Recommendations on the Development of Distributed Energy Resources (DERs) Datahub for Improved DERs Data Management in Malaysia -- .

| Sommario/riassunto | This book constitutes the refereed proceedings of the 7th International Conference on Advances in Visual Informatics, IVIC 2021, held in Selangor, Malaysia in November 2021. The 59 papers presented were carefully reviewed and selected from 114 submissions. The papers are organized into the following topics: Visualization and Digital Innovation; Engineering and Digital Innovation; Cyber Security and Digital Innovation; and Energy Informatics and Digital Innovation. |