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Soggetti	User interfaces (Computer systems) Human-computer interaction Artificial intelligence Application software Computers Computer engineering Computer networks Software engineering User Interfaces and Human Computer Interaction Artificial Intelligence Computer and Information Systems Applications Computing Milieux Computer Engineering and Networks Software Engineering
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Nota di contenuto	A Home-based Adaptive Collaborative System for Stroke Patient Rehabilitation -- User Comfort Achievement by Fuzzy Preferences through an Emotion Communication System -- A Personalized Food Recommendation Chatbot System for Diabetes Patients -- Collaborative Design Automation Toolkit for Power Controllers in Aerospace Applications -- Collaborative Product Design for Product

Customization: An Industrial Case of Fashion Product -- Towards Automatic Generation of Storyline Aided by Collaborative Creative Design for Educational Purpose -- Cooperative Design of an Interactive Museum Guide -- A Hybrid Architecture for Tiered Storage with Fuzzy Logic and AutoML -- Textual Representation of Pushout Transformation Rules -- Blockchain Vs GDPR in Collaborative Data Governance -- Cooperative Decision Making in Crowdfunding - Applying Theory of Behavior and Exemplary Empirical Validation -- FireBird: A Fire Alert and Live Fire Monitoring System based on Social Media Contribution -- Clustering of Time-Series Balance History Data Streams using Apache Spark -- Integrated Evolution Model of Service Internet Based on an Improved Logistic Growth Model -- A Data-driven Platform for Predicting the Position of Future Wind Turbines -- Cooperative Designing of Machine Layout Using Teaching Learning Based Optimisation and its Modifications -- Making Sociological Theories Come Alive – a Cooperative Work on Collective Memories regarding Frontier Zones -- Designing a Culturally Inspired Mobile Application for Cooperative Learning -- CLASS-O, a Cooperative Language Assessment System with Ontology -- Comparing Machine Learning Algorithms to Predict Topic keywords of Student Comments -- Logging and Monitoring System for Streaming Data -- Active Learning with Crowdsourcing for the Cold Start of Imbalanced Classifiers -- A Dynamic Visualization Platform For Operational Maritime Cybersecurity -- Collaborative Visual Analytics Using Blockchain -- The Development of an Asynchronous Web Application for Family Social Media Communication -- Analysis of Scholarship Consideration using J48 Decision Tree Algorithm for Data Mining -- Centralized Access Point for Information System Integration Problems in Large Enterprises -- Cooperation between Performance and Innovation Engine: An Exploratory Study of Digital Innovation Labs in Family Business -- Dynamic Network Visualization of Space Use Patterns to Support Agent-Based Modelling for Spatial Design -- Challenges related to 4D BIM Simulation in the Construction Industry -- The Cooperative Management of Complex Knowledge in Planning: Building a Semantic-based Model for Hydrological Issues -- A Collaborative Web Application based on Incident Management Framework for Financial System -- Early Warning System for Shock Points on the Road Surface -- Vehicle Motion Simulation Method in Urban Traffic Scene -- Collaborative Application for Rapid Design of Paintings in Vector Format -- Implementation of Cooperative Sub-Systems for Mobile Robot Navigation -- Searching for Extreme Portions in Distributions: A Comparison of Pie and Bar Charts -- Visualizing Features on Classified Fauna Images using Class Activation Maps -- Social Media Analytics in Comments of Multiple Vehicle Brands on Social Networking Sites in Thailand -- Static and Dynamic Parameter Settings of Accelerated Particle Swarm Optimisation for Solving Course Scheduling Problem.

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#### Sommario/riassunto

This book constitutes the proceedings of the 17th International Conference on Cooperative Design, Visualization, and Engineering, CDVE 2020, held in Bangkok, Thailand, in October 2020.\* The 33 full papers and 7 short papers presented were carefully reviewed and selected from 74 submissions. The achievement, progress and future challenges are reported in areas such as health care, industrial design, banking IT systems, cultural activities support, operational maritime cybersecurity assurance, emotion communication, and social network data analytics. \* The conference was held virtually due to the COVID-19 pandemic.

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