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Collana	Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 993
Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Computational Intelligence Artificial Intelligence
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Nota di contenuto	Implementation of a Fuzzy-based Simulation System and a Testbed for Improving Driving Conditions in VANETs -- Day Ahead Electric Load Forecasting by an Intelligent Hybrid Model Based on Deep Learning for Smart Grid -- Comparative Analysis of Neural Networks and Enhancement of ELM for Short Term Load Forecasting -- Cognitive Personal Security Systems -- Realtime Road State Decision System Based on Multiple Sensors and AI Technologies -- Modelling a Smart Motorway -- The Spatiotemporal Prediction Model of Opioids Spread Trend Based on Grey Correlation -- Knowledge Sharing System Database Architecture for Global Knowledge Sharing -- Self-explanatory Capabilities in Intelligent Decision Support Systems in Resource Management -- Evaluation of Mobile Health Services in Health Organizations -- A Piano Performance Training System Based on Visual and Tactile Guidance -- Fraud Prevention on Village Government: The Importance of Digital Infrastructure Supervision.
Sommario/riassunto	This book presents scientific interactions between the three interwoven and challenging areas of research and development of future ICT-enabled applications: software, complex systems and intelligent

systems. Software intensive systems heavily interact with other systems, sensors, actuators, and devices, as well as other software systems and users. More and more domains involve software intensive systems, e.g. automotive, telecommunication systems, embedded systems in general, industrial automation systems and business applications. Moreover, web services offer a new platform for enabling software intensive systems. Complex systems research focuses on understanding overall systems rather than their components. Such systems are characterized by the changing environments in which they act, and they evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents features the use of ontologies, and their logical foundations provide a fruitful impulse for both software intensive systems and complex systems. Research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences is a vital factor in the future development and innovation of software intensive and complex systems. .
