1. Record Nr.   UNINA9910908369703321

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   Titolo   The 19th International Conference on Soft Computing Models in Industrial and Environmental Applications SOCO 2024 : Salamanca, Spain, October 9-11, 2024 Proceedings, Volume 1 / / edited by Héctor Quintián, Emilio Corchado, Alicia Troncoso Lora, Hilde Pérez García, Esteban Jove, José Luis Calvo Rolle, Francisco Javier Martínez de Pisón, Pablo García Bringas, Francisco Martínez Álvarez, Álvaro Herrero Cosío, Paolo Fosci

   Pubbl/distr/stampa   Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024

   ISBN   9783031750137
   9783031750120

   Edizione   [1st ed. 2024.]

   Descrizione fisica   1 online resource (338 pages)

   Collana   Lecture Notes in Networks and Systems, , 2367-3389 ; ; 888

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   Disciplina   006.3

   Soggetti   Computational intelligence
   Computational Intelligence

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di contenuto   -- Part I Deep Learning and Neural Networks. -- Chapter 1 Human detection in images captured by UAVs in natural environments. -- Chapter 2 Interpretation of Diabetic Foot Ulcer Image Classification using Layer Attribution Algorithms. -- Chapter 3 Improving the Efficiency of Production Processes by Reducing Human Errors Using Intelligent Methods. -- Chapter 4 Automated semantic labelling of images generated with deep diffusion probabilistic models. -- Part II

Machine Learnig and Data Mining. -- Chapter 5 Wastewater Quality Indicator Estimation Using Machine Learning and Data Augmentation Techniques. -- Chapter 6 A Virtual Avatar for Sign Language Signing. -- Chapter 7 Comparison of D-Wave quantum computing environment solvers for a two-machine jobs scheduling problem. -- Chapter 8 Hybrid Fuzzy-Based Method for Optimally Selecting Aircraft for Low-Cost Carriers Operating Medium-Haul Flights. -- Chapter 9 Two Way Ranging positioning methods analysis under optimized sensor deployments, etc.

Sommario/riassunto	This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at the SOCO 2024 conference held in the beautiful and historic city of Salamanca (Spain) in October 2024. Soft computing represents a collection or set of computational techniques in machine learning, computer science, and some engineering disciplines that investigate, simulate, and analyze very complex issues and phenomena. After a thorough peer-review process, the 18th SOCO 2023 International Program Committee selected 62 papers for publication in these conference proceedings, representing an acceptance rate of 50%. In this relevant edition, a particular emphasis was put on organizing special sessions. Four special sessions were organized related to relevant topics such as Machine Learning and Computer Vision in Industry 4.0, Intelligent Models and Frameworks for Smart Agriculture and Green Economy, Computational Intelligence Applied to Modelling and Control of Engineering Systems, and Applied Machine Learning (2nd Edition). The selection of papers was extremely rigorous to maintain the high quality of the conference. We want to thank the members of the Program Committees for their hard work during the reviewing process. This is a crucial process for creating a high-standard conference; the SOCO conference would not exist without their help.