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Nota di contenuto	Intro -- Preface -- Organization -- General Chair -- International Advisory Committee -- Program Committee Chairs -- Program Committee -- Special Sessions -- Machine Learning and Computer Vision in Industry 4.0 -- Program Committee -- Time Series Forecasting in Industrial and Environmental Applications -- Program Committee -- Optimization, Modeling, and Control by Soft Computing Techniques -- Program Committee -- Soft Computing Applied to Renewable Energy Systems -- Program Committee -- Preprocessing Big Data in Machine Learning -- Program Committee -- Tackling Real-World Problems with Artificial Intelligence -- Program Committee -- SOCO 2022 Organizing Committee Chairs -- SOCO 2022 Organizing Committee -- Contents -- Decision Support and Deep Learning -- Anomaly Detection of Security Threats to Cyber-Physical Systems: A Study -- 1 Introduction -- 2 Statistical Analysis -- 3 Literature

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Sommario/riassunto

This book contains accepted papers presented at SOCO 2022 conference held in the beautiful and historic city of Salamanca (Spain), in September 2022. Soft computing represents a collection or set of computational techniques in machine learning, computer science, and some engineering disciplines, which investigate, simulate, and analyze very complex issues and phenomena. After a thorough peer-review process, the 17th SOCO 2022 International Program Committee selected 64 papers which are published in these conference proceedings and represent an acceptance rate of 60%. In this relevant edition, a particular emphasis was put on the organization of special sessions. Seven special sessions were organized related to relevant topics such as machine learning and computer vision in Industry 4.0; time series forecasting in industrial and environmental applications; optimization, modeling, and control by soft computing techniques; soft computing applied to renewable energy systems; preprocessing big data in machine learning; tackling real-world problems with artificial intelligence. 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.