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ISBN	1-66545-397-4
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Disciplina	001.64250724
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Lingua di pubblicazione	Inglese
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Autore	Wagner Achim
Titolo	Advances in Artificial Intelligence in Manufacturing : Proceedings of the 1st European Symposium on Artificial Intelligence in Manufacturing, September 19, 2023, Kaiserslautern, Germany / / edited by Achim Wagner, Kosmas Alexopoulos, Sotiris Makris
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Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Altri autori (Persone)	AlexopoulosKosmas MakrisSotiris
Disciplina	629.8
Soggetti	Automation Industrial engineering Production engineering Human-machine systems Industrial and Production Engineering Human-Machine Interfaces Process Engineering
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Organization -- Contents -- Artificial Intelligence at Manufacturing System Level -- An Integrated Active Learning Framework for the Deployment of Machine Learning Models for Defect Detection in Manufacturing Environments -- 1 Introduction -- 2 The Problem -- 2.1 Active Learning -- 2.2 Deployment -- 2.3 Monitoring -- 2.4 Explainability -- 3 Use Cases -- 3.1 Binary Classification -- 3.2 Multiclass Classification -- 3.3 Object Detection -- 4 Results -- 4.1 Binary Classification -- 4.2 Multiclass Classification -- 4.3 Object Detection -- 4.4 MLOps -- 5 Conclusions -- 6 Aknowlegments -- References -- Complex and Big Data Handling and Monitoring Through Machine Learning Towards Digital-Twin in High Precision Manufacturing -- 1 Introduction -- 2 Brief Overview of the State-of-the-Art -- 3 Real Case Studies -- 4 Proposed Methods -- 4.1 Low-Dimensional Learning for Machine Health Condition Monitoring -- 4.2 Recurrent NNs for Multi-stream Process Pattern Prediction
Sommario/riassunto	This book reports on recent developments of artificial intelligence applications in the manufacturing industry. Gathering contributions to the first European Symposium on Artificial Intelligence in Manufacturing, held on September 19, 2023, in Kaiserslautern, Germany, it reports on machine learning models and algorithms for systems monitoring and industrial data management, on advances in human-robot collaboration, and on artificial intelligence applications in industrial control and process monitoring. Giving a special emphasis to the integration of artificial intelligence in manufacturing systems and processes, this book offers a timely and practice-oriented guide to a multidisciplinary audience of engineering researchers, software developers and industrial managers.