1. Record Nr. UNICAMPANIASUN0132023

Titolo	The economy of Pompeii / edited by Miko Flohr and Andrew Wilson
Pubbl/distr/stampa	Oxford, : Oxford University Press, 2017
ISBN	978-01-987865-7-3
Descrizione fisica	XVII, 433 p. : ill. ; 25 cm.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910799211203321

Autore	Abonyi János
Titolo	Ontology-Based Development of Industry 4.0 and 5.0 Solutions for Smart Manufacturing and Production : Knowledge Graph and Semantic Based Modeling and Optimization of Complex Systems / / by János Abonyi, László Nagy, Tamás Ruppert
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031474446 3031474449
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (277 pages)
Collana	Springer Series in Advanced Manufacturing, , 2196-1735
Altri autori (Persone)	NagyLaszlo RuppertTamás
Disciplina	670
Soggetti	Industrial engineering Production engineering Production management Mathematical optimization System theory Industrial and Production Engineering Production Optimization Complex Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico	Monografia
Nota di contenuto	Part I Introduction and motivation of the book -- Introduction to the industrial application of semantic technologies -- Ontology-based modeling of a wire harness manufacturing processes -- Knowledge graph-based framework to support human-centered collaborative and ergonomic manufacturing in Industry 5.0 -- Part II Problem statement of network science-based process optimization -- Analytic hierarchy process and multilayer network-based method for assembly line balancing -- Efficient network community detection algorithm based on crossing minimization and bottom-up segmentation -- Hypergraph-based analysis of collaborative manufacturing -- Cookbook for semantic-based modeling and optimization of manufacturing systems -- Conclusion.
Sommario/riassunto	This book presents a comprehensive framework for developing Industry 4.0 and 5.0 solutions through the use of ontology modeling and graph-based optimization techniques. With effective information management being critical to successful manufacturing processes, this book emphasizes the importance of adequate modeling and systematic analysis of interacting elements in the era of smart manufacturing. The book provides an extensive overview of semantic technologies and their potential to integrate with existing industrial standards, planning, and execution systems to provide efficient data processing and analysis. It also investigates the design of Industry 5.0 solutions and the need for problem-specific descriptions of production processes, operator skills and states, and sensor monitoring in intelligent spaces. The book proposes that ontology-based data can efficiently represent enterprise and manufacturing datasets. The book is divided into two parts: modelingand optimization. The semantic modeling part provides an overview of ontologies and knowledge graphs that can be used to create Industry 4.0 and 5.0 applications, with two detailed applications presented on a reproducible industrial case study. The optimization part of the book focuses on network science-based process optimization and presents various detailed applications, such as graph-based analytics, assembly line balancing, and community detection. The book is based on six key points: the need for horizontal and vertical integration in modern industry; the potential benefits of integrating semantic technologies into ERP and MES systems; the importance of optimization methods in Industry 4.0 and 5.0 concepts; the need to process large amounts of data while ensuring interoperability and re-usability factors; the potential for digital twin models to model smart factories, including big data access; and the need to integrate human factors in CPSs and provide adequate methods tofacilitate collaboration and support shop floor workers.

3. Record Nr. UNINA9910375886403321

Autore	Conti Mauro
Titolo	SACMAT'13 : proceedings of the 18th ACM Symposium on Access Control Models and Technologies : June 12-14, 2013, Amsterdam, The Netherlands
Pubbl/distr/stampa	[Place of publication not identified], : ACM, 2013
ISBN	1-4503-1950-5
Descrizione fisica	1 online resource (266 pages)
Collana	ACM Conferences
Soggetti	Engineering & Applied Sciences Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph